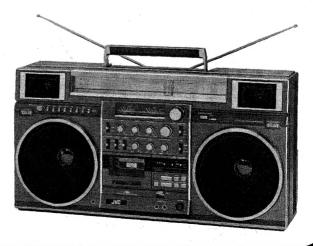
JVC



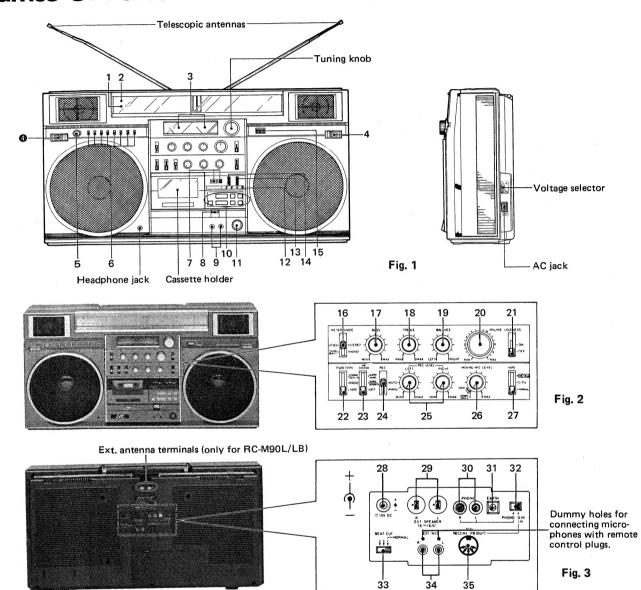
MODEL RC-M90L/LB/LD

FM-MW-LW-SW1-SW2-SW3-SW4-SW5 8-BAND STEREO RADIO CASSETTE RECORDER



Contents	Page	Page
Names of Parts	2	Wiring Connection (1)
Specifica	ntions	Features
Semiconductors Speakers Tuner section Frequency ranges Antennas Tape recorder section Track system	: 21 ICs, 81 transistors & 1 FET : 20 cm x 2, 6.5 cm x 2 : FM 88 - 108 MHz MW 540 - 1600 kHz LW 150 - 350 kHz SW1 1.6 - 3.5 MHz SW2 3.5 - 6.0 MHz SW3 5.95 - 6.2 MHz SW4 6.0 - 11.0 MHz SW5 11.0 - 26.0 MHz (RC-M90L/LB 11.0 - 25.0 MHz (RC-M90LD) : Telescopic antennas for FM & SW Ferrite core antenna for MW & LW External antenna terminal (for FM & SW) provided	 Newly developed 2-way. 4-speaker system with polyurethane laminated cone woofers. 2-way, 4-speaker system with two 20 cm woofer and two 6.5 cm tweeters. Use newly developed polyurethane laminated con in the woofers to reproduce rich, realistic sound. High total power output of 40 W (20 W per channel). 2-motor full logic control mechanism. Provided with a remote control jack.
Input/output jack Power supply Power consumption Dimensions Weight Design and specification	 : DIN jack : DC 15 V (10 "R20" cells) Car battery through a car battery adapter AC 240/220/110 V, 50/60 Hz : 70 W (RC-M90L) 61 W (RC-M90LB) : 668(W) x 350(H) x 177(D) mm : Approx. 10.0 kg (without batteries) Approx. 11.1 kg (with batteries) ations subject to change without notice. 	 Built-in RIAA equalizer for direct connection of turntable. External speaker jacks. External antenna terminals for FM and SW. (RC-M90L/LB) "Dolby" and the double-D symbol are trademarks o Dolby Laboratories Licencing Corporation.

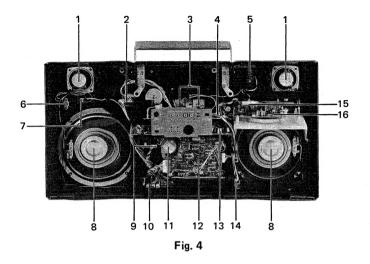
Names of Parts



- POWER indicator
- FM STEREO indicator
- 3-way meter 3.
- Built-in microphones (L, R) 4.
- FINE TUNING knob
- BAND select buttons
- Tape counter with reset button
- **EJECT** button 8.
- 9. MIXING MIC jacks
- Cassette operation buttons
 - STOP button
 - REC button
 - II PAUSE button
 - **◄** REVIEW button
 - ► PLAY button
 - ▶▶ CUE button
- REMOTE jack 11.
- MULTI MUSIC SCANNER indicators 12.
- MULTI MUSIC SCANNER switch 13.
- TIMER STANDBY switch 14.
- **FUNCTION STANDBY switch**

- METER/MODE switch
- **BASS** control 17.
- 18. TREBLE control
- **BALANCE** control 19.
- **VOLUME** control 20.
- 21. LOUDNESS switch
- 22. **FUNCTION** switch
- 23. NR SYSTEM switch
- 24. REC switch (AUTO – MANU) REC LEVEL controls
- 25.
- 26. MIXING MIC LEVEL control
- 27. TAPE switch
- 28. External DC input jack (DC 15 V)
- 29. External speaker jacks (EXT SPKR; $6 \sim 16 \Omega$)
- PHONO input jacks 30.
- 31. **EARTH** terminal
- PHONO/DIN IN selector switch 32.
- 33. **BEAT CUT switch**
- 34. External microphone jacks (EXT MIC)
- 35. DIN-type jack (REC/PB)

Main Parts Location



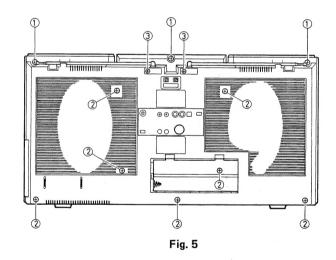
- 1. Speakers (tweeter)
- 2. Power switch P.W. board ass'y
- 3. Indicators (meters)
- 4. Main amp. P.W. board ass'y
- 5. LED P.W. board ass'y
- 6. E.C. microphone
- 7. Connector board
- 8. Speakers (woofers)
- 9. M.M.S. P.W. board ass'y
- 10. Jack P.W. board
- 11. Capstan motor
- 12. Mecha. control P.W. board ass'y
- 13. Pre-amp. P.W. board ass'y
- 14. Phones (headphone) P. W. board
- 15. Tuner P.W. board ass'y
- 16. Bar antenna ass'y

Removal of the Main Parts

A. Rear cabinet and rod antennas (Fig. 5)

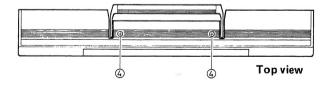
- 1. Remove the battery cover.
- 2. Remove 3 screws 1 SBSF4018R.
- 3. Remove 7 special screws 2 VKZ4008-002.

 To remove the rear cabinet, remove the rod antennas and power supply P.W. board wires connector.
- 4. To remove the rod antenna only, remove a screw 3 fixing the antenna holder (need not the rear cabinet).



B. Chassis (with cassette mechanical unit) (Fig. 6, 7)

- Remove 2 screws 4 SDSP3008RS (upper side on the front cabinet) and 2 screws 5 SBSF3012R (lower side on the front cabinet).
- 2. Remove 7 screws 6 SBSF3014C, and a screw SBSF3030V.
- 3. Remove 8 connectors (A) ~ (H).
- 4. Remove lever switch knobs, VR knobs and tuning knob.



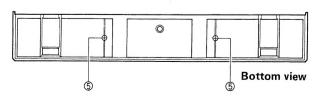


Fig. 6

C. Mechanical unit (Fig. 8)

- 1. Remove 4 screws 7 SBSF3010V.
- 2. Remove a wire connector (1).
- 3. Unsolder head wires.

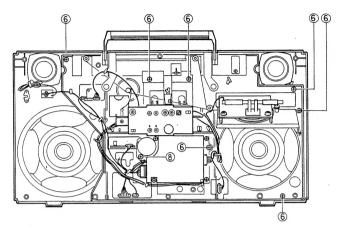


Fig. 7

D. Mechanical unit (How to remove directly from the front cabinet) (Fig. 7, 8)

- 1. Remove 4 screws (7) SBSF3010V.
- 2. Remove a screw(8) SBSF3030V.
- 3. Remove wire connectors (B), $(D) \sim (F)$ and (I).
- 4. Unsolder head wires.

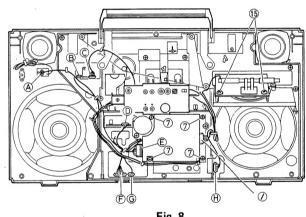


Fig. 8

E. Other parts (Fig. 8, 9)

- 1. Tweeters = remove 4 screws 9 SBSF3008Z.
- 2. Woofers = remove 8 screws (0) SBSF4010Z.
- 3. Connector P.W. boards and power switch P.W. board = remove 7 screws (1) - SBSF3010Z.
- 4. MMS jack and phones P.W. boards = remove 4 screws (2) - SBSF3008Z.
- 5. Mechanical operation button P.W. board = remove 2 screws (3) - SBSF2616Z.
- 6. Pre-amp. and main amp. P.W. board = remove 2 screws 14 - SBSF3012V.
- 7. Tuner P.W. board = remove 2 screws (15) SBSF-3012V.

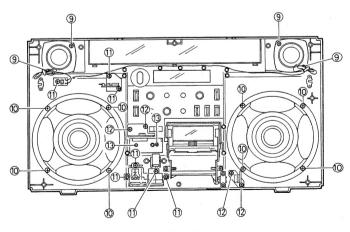


Fig. 9

Removal of the Mechanical Parts

(Refer to page 26 "Cassette Mechanical Component Parts".)

A. Pinch roller arm ass'y 96 (Fig. 10)

- 1. Remove E-ring 98.
- 2. Remove the pinch roller arm ass'y with its spring.

B. Heads (Fig. 10)

1. REC/PB head 45

Unsolder the head wires and remove 2 screws (49).

2. Erase head 47 Unsolder the head wires and remove 2 screws (51).

C. Cassette plate (Fig. 10)

- 1. Remove 2 screws SDSB2605R.
- 2. To remove the cassette plate, hold upper side on the (A) and (B) points.

D. Tape counter 60 (Fig. 10)

- 1. Remove the counter belt (124).
- 2. Draw the counter ass'y to front side, pushing the mold part of the bracket lower side by screw driver.

E. Reel disk ass'y (Fig. 10)

1. Take-up reel disk ass'y 4

Remove the cassette plate and the counter belt (1). Remove the reel stopper (7).

2. Supply reel disk ass'y 5
Remove the reel stopper 7.

When assembling the reel disk, the stopper need a new part, the stopper cannot be used again.

F. Mecha. control P.W. board ass'y (Fig. 11) Remove 4 screws (4).

G. Flywheel holder (25) (Fig. 12)
Remove 3 screws (27) .

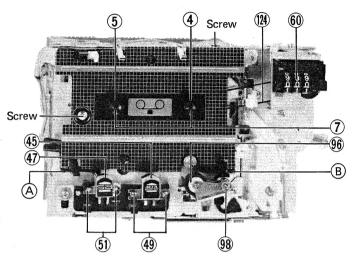
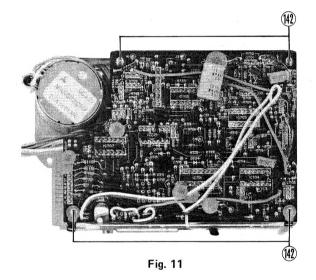


Fig. 10



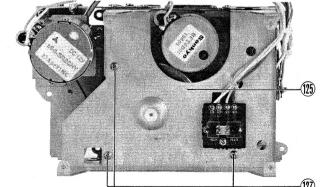
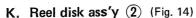


Fig. 12

- H. Capstan motor 53 (Fig. 13)
 - 1. Remove the capstan belt (12).
 - 2. Remove 3 screws (61) with motor bracket.
 - 3. Remove the rubber stopper, and then turn the motor to inside.
- I. Reel motor (73) (Fig. 13)
 Remove 2 screws (76).
- J. Flywheel ass'y (II) (Fig. 13)
 Remove the take-up belt and capstan belt.
 (When replacing the flywheel, be sure to employ washers.
 Be careful not to soil the belt.)



- Remove the reel motor, flywheel ass'y and counter belt.
- 2. Remove 3 screws 77.
- L. Drive gear ass'y (16) (Fig. 14)
 - 1. Remove the flywheel ass'y.
 - 2. Remove 3 screws 86.

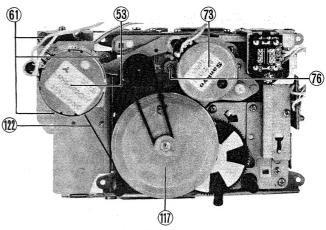


Fig. 13

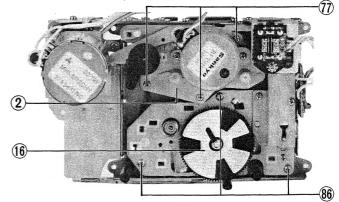
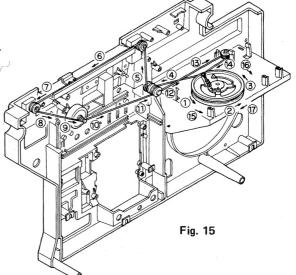


Fig. 14

How to Engage Dial Cord

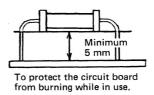
- 1. Turn the dial drum fully counterclockwise (to the lowest frequency).
- 2. Use Kevlar cord (1,680 mm long and 0.5 mm in diameter).
- 3. Install the string in the sequence of the numbers.
- 4. Wind 2 turns to the tuning shaft and the drum.



Safety Precautions

Safety is very important with this unit. When replacing the parts marked \triangle , be sure to use only those designated parts. The designated resistors, diodes, transistors become hot in use. When replacing, be sure to secure them with a distance of more than 5 mm from the circuit board. In addition, they are banded together to avoid touching other wiring, recheck this point as well after repair.

The wiring of the primary side should be wound more than one and half times, then soldered.



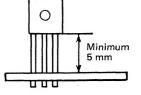


Fig. 16

No. 1466

Tuner Alignment

Output Measuring: Speaker terminal (Impedance = 6Ω), output level 50 mW (0.55 V/6 Ω)

AM IF & RF Alignment

Input (SSG) Modulation 400 Hz, Modulated to 30%

	Frequency	In	put Signal	Place to be	Set the V.
Step	Band	Frequency	Given to	aligned	Capacitor to
1	MW	455 kHz	Loop Antenna	T3, 4, 5 Input; TP-3 Output; TP-4, TP-5	Minimum
2	(IF)	Repeat the Step	1, and adjust for no further	r improvement.	
3		520 kHz	Loop Antenna	L8	Maximum
4		1650 kHz	Loop Antenna	TC8	Minimum
5	MW	Repeat the Step	s 3 & 4.		
6	10100	620 kHz	Loop Antenna	L1	620 kHz Signa
7		1400 kHz	Loop Antenna	TC1	1400 kHz Signa
8		Repeat the Step	s 6 & 7, and adjust for no fu	ırther improvement.	
9		145 kHz	1 A	L9	Maximum
10		360 kHz	Loop Antenna	TC9	Minimum
11	1.30/	Repeat the Step	s 9 & 10	•	
12	LW	160 kHz		L2	160 kHz Signa
13		350 kHz	Loop Antenna	TC2	350 kHz Signa
14		Repeat the Step	s 12 & 13, and adjust for no	further improvement.	
15		1.55 MHz		L10	Maximum
16		3.7 MHz	Loop Antenna	TC10	Minimum
17		Repeat the Step	s 15 & 16.		
18	SW1	1.6 MHz		L3	1.6 MHz Signa
19		3.5 MHz	Loop Antenna	TC3	3.5 MHz Signa
20			s 18 & 19 and adjust for no		olo imile olgin
21		3.4 MHz		L11	Maximum
22		6.3 MHz	Rod Antenna through Dummy Antenna	TC11	Minimum
23		Repeat the Step	s 21 & 22.		
24	SW2	3.5 MHz		L4	3.5 MHz Signa
25		6.0 MHz	Rod Antenna through Dummy Antenna	TC4	6.0 MHz Signa
26		Repeat the Step	s 24 & 25 and adjust for no	further improvement	
27		5.9 MHz		L12	Maximum
28		6.3 MHz	Rod Antenna through Dummy Antenna	TC12	Minimum
29	CIMO	Repeat the Step	s 27 & 28.		
30	SW3	5.9 MHz		L5	5.9 MHz Signa
31		6.3 MHz	Rod Antenna through Dummy Antenna	TC5	6.3 MHz Signa
32			s 30 & 31 and adjust for no		0.0 WHI 2 Orgina
33		5.8 MHz		L13	Maximum
34		11.5 MHz	Rod Antenna through Dummy Antenna	TC13	Minimum
		Repeat the Step		1013	Willimani
35	SW4	6.0 MHz		L6	C O MULT Cirro
36		11.0 MHz	Rod Antenna through Dummy Antenna	TC6	6.0 MHz Signa
37					11.0 MHz Signa
38		10.7 MHz	s 36 & 37 and adjust for no		Movier
39			Rod Antenna through Dummy Antenna	L14	Maximum
40		19.0 MHz		TC14	Minimum
41	SW5	Repeat the Steps	5 38 & 4U.	17	10.0 M
42		12.0 MHz	Rod Antenna through	L7	12.0 MHz Signal
43		18.0 MHz	Dummy Antenna	TC7	18.0 MHz Signal

FM IF & Discriminator Alignment

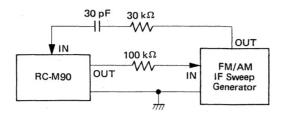
Input (Sweep Generator): TP1 (hot)

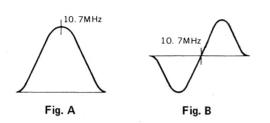
Output (Oscilloscope) : IF

TP2 (hot) & TP5

Discriminator TP2 (hot) & TP5

1	Step	M ode	Place to be aligned	Wave form
	1	IF	T1	Fig. A
	2	Discriminator	T2	Fig. B





FM RF Alignment

Input (SSG): Use 75 Ω terminal, modulation 400 Hz modulated to 22.5 kHz deviation. Connect Hot side to TP6 and Cold side to TP7.

	Frequency Band	1:	Input Signal		Place to be	Set the V.
Step		Frequency	Given to		aligned	Capacitor to
1	87.5 MHz 109 MHz	- 1	L16	Maximum		
2		109 MHz	- ΙΡΟ Δ ΙΡ/		TC16	Minimum
3	F14	Repeat the Step	s 1 & 2.			
4	FM	90 MHz			L15	90 MHz Signal
5		106 MHz	TP6 & TP7		TC15	106 MHz Signal
6		Repeat the Step	s 4 & 5, and adjust for no	further	improvement.	

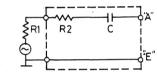
FM MPX Alignment

- A. 19 kHz Alignment (regular Method)
- 1. Connect a frequency counter to the test point TP8.
- 2. Adjust the variable resistor VR1 so that the frequency becomes 19 kHz \pm 250 Hz.
- B. 19 kHz Alignment (Simplified Method)
- 1. Turn to an FM stereo broadcast.
- 2. Set the variable resistor VR1 to the center position of the range in where the stereo indicator keeps lighting.
- C. Separation Alignment
- 1. Connect an FM stereo signal generator across the test points TP2 (98 MHz, 60 dB).
- 2. Connect an Electronic voltmeter or oscilloscope across the test points TP8.
- 3. Adjust the variable resistor VR2 to minimize the output of right channel signal.

Parts Arrangement for Alignment

Fig. 17

Dummy Antenna



 $R1 + R2 = 80 \Omega$

C = 10 pF

R1 : Output impedance of S.S.G.

RC-M90L/LB/LD

Adjustment of Cassette **Recorder Amplifier**

Basic conditions:

Source power: 15 V DC

Measurement: at LINE OUT terminals Switch setting: Select SW; TAPE

MODE SW; STEREO Beat cut ; "1" (Normal)

PHONO/LINE IN select SW; LINE IN

Adjust in the following sequence.

1 Head azimuth

Connect an oscilloscope to the DIN jack. Using test tape VTT-658 (10 kHz, -15dB), adjust so the phase differnce between the L and R output is 0° and maximize the output level at the same time.

Connect a frequency counter to the DIN jack. Playing back test tape VTT656 (3,000 Hz), adjust the semi-fixed resistor in the motor so that the frequency counter reads 3,010 ± 10 Hz.

3 Playback level

Connect an electronic voltmeter to the DIN jack. Playing back test tape VTT664 (1 kHz, 16 mM), adjust VR101 and VR201 so that the L and R output levels become 300 mV.

After adjustment item 3, playback test tape VTT664 (1 kHz 16 mM).

Adjust VR301 and VR401 on the main amp. P.W. board so that level meter gain becomes 0 VU.

5 Erase current (METAL tape used)

Connect an electronic voltmeter to TP501 (R540 both sides).

Check erase current so that it becomes more than 95 mV/1 Ω (95 mA).

If its current becomes more than 120 mA, unsold R524 (10 Ω) to open the pattern circuit.

6 Bias frequency (Tape = METAL)

Connect a frequency counter TP101 (R159 both sides).

Adjust L501 so that the counter reads 68 kHz. After adjustment, connect R540 (1 Ω).

7 Bias current (1)

Connect an electronic voltmeter to TP101 (R159) and TP201 (R259).

Adjust following conditions.

rat metal tape 7 mV/10 Ω (700 μ A) — VR105, VR205

¹ at normal tape 3 mV/10 Ω (300 μ A) — VR104, VR204

8 Recording current (Tape = NORMAL)

Volume control = MAX. Apply 1 kHz (-16 dBs) to the DN jack

Adjust VR103 and VR203 so that the level meter reads 0 VU.

9 Bias current (2) Record 1 kHz, 10 kHz (-36 dBs) signals to the DIN jack.

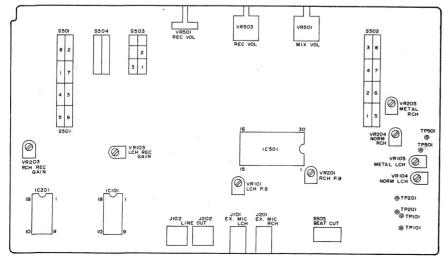
Play back the recorded part.

Adjust following conditions.

1 kHz (reference) 10 kHz $-{}^{+1}_{-0}$ dB

at metal tape VR105, 205 at normal tape VR104, 204 mini. adjustment

Adjustment location (Amplifier circuit)



No. 1466

Adjustment of Cassette Mechanism

Check the following items after cassette mechanism parts are replaced.

-	Item	Requirements	Test equipment	Test tape
1.	Source voltage	Rated voltage: 15 V DC Motor operating voltage range: 10-15 V DC	Regulated power supply	_
2.	Tape speed	4.8 cm/sec + 2% (3,000 Hz) -2% Deviation 1%	Frequency counter (digital counter)	VTT-656
3.	Wow & flutter	Less than 0.16% (RMS)	Wow meter	VTT-656
4.	Take-up torque	PLAY 40-70 g.cm FF more than 80 g.cm REW more than 80 g.cm	During FF and rewind, the idlers, reels and flywheel should not slip against each other when the reels are locked. Torque dial gauge	
5.	Current consumption (of motor alone)	PLAY 170 mA or less FF 250 mA or less REW 250 mA or less	DC ammeter	C-60 (Take-up torque should be normal when tape is used.)
6.	Pinch roller pressure	300-450 g	Tension gauge Pull the pinch roller per- pendicularly and read the gauge when the pinch roller just stops.	
7.	Axial clearance of flywheel	0.1 - 0.3 mg	Clearance gauge	
8.	Head position during PLAY and RECORD	3,6 ^{+0,3} mm 3,4 ^{+0,15} m	During PLAY (RECORD) the dimensional requirements given here must be met, and the heads must not contact the cassette case.	Any cassette tape
9.	Head position during cueing	4.40–5.10 mm	The dimensional requirement given here must be met when the PLAY and FF (REW) buttons are locked simultaneously.	
10.	Auto-stop operation	tape during PLAY/RECORD, FF, During REC, a load the same as the	at of the amplifier is applied.	Any cassette tape
11.	Review operation	Check the following repeated oper 1. At playback. 2. Push on the REVIEW (REW) bu 3. Check to remove the pinch rolle 4. Check to remove the take-up pu REW roller to supply reel. 5. Rewind the tape to supply reel. 6. Push off the REVIEW (REW) bu		
12.	Cueing operation	Checking the following repeated on 1. At playback. 2. Push on the CUE (FF) button. 3. Check to remove the pinch rolle 4. Check to remove the take-up purp reel. 5. Fast forward the tape to take-up 6. Push off the CUE (FF) button.		

Block Diagrams

A. Tuner Circuit

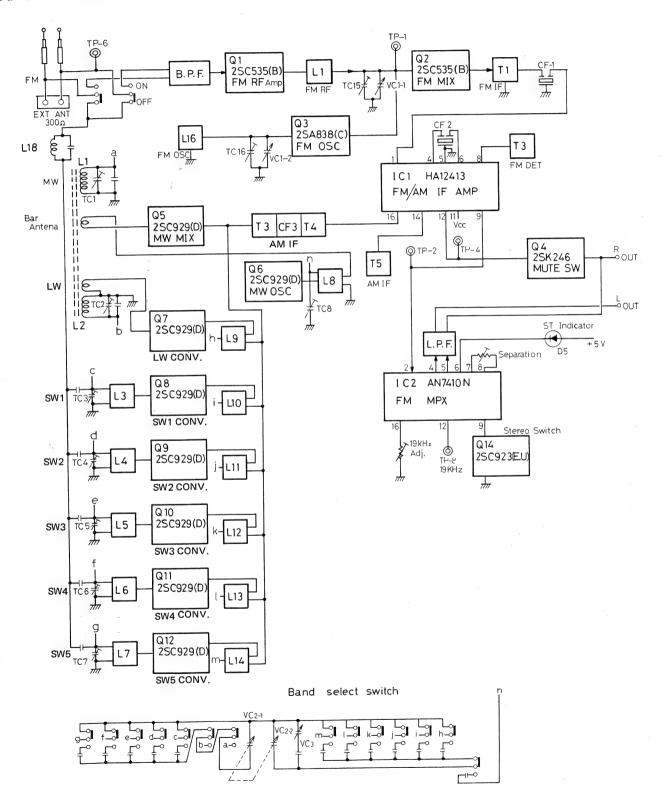
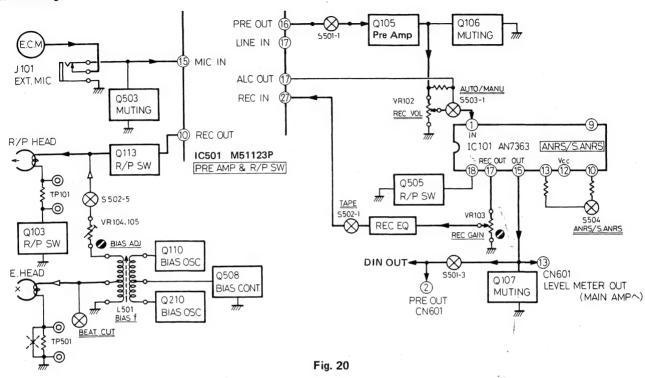


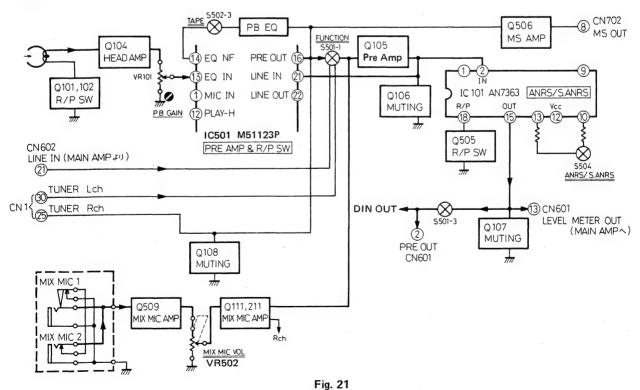
Fig. 19

B. Pre-Amplifier Circuit

At recording



At playback



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C. Main Amplifier Circuit

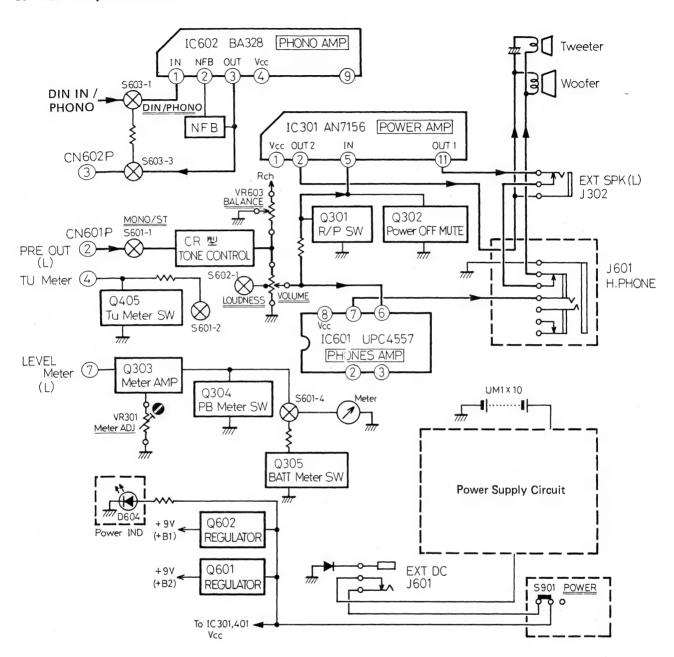


Fig. 22

D. Mecha. Control Circuit

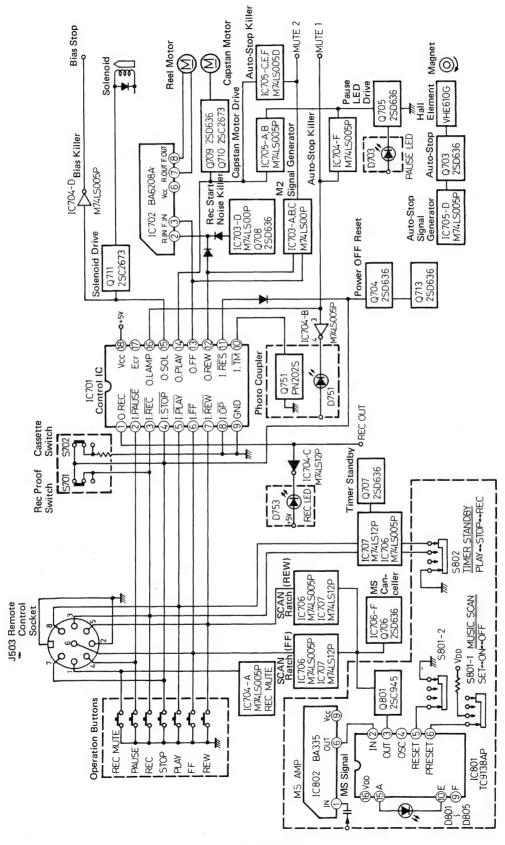
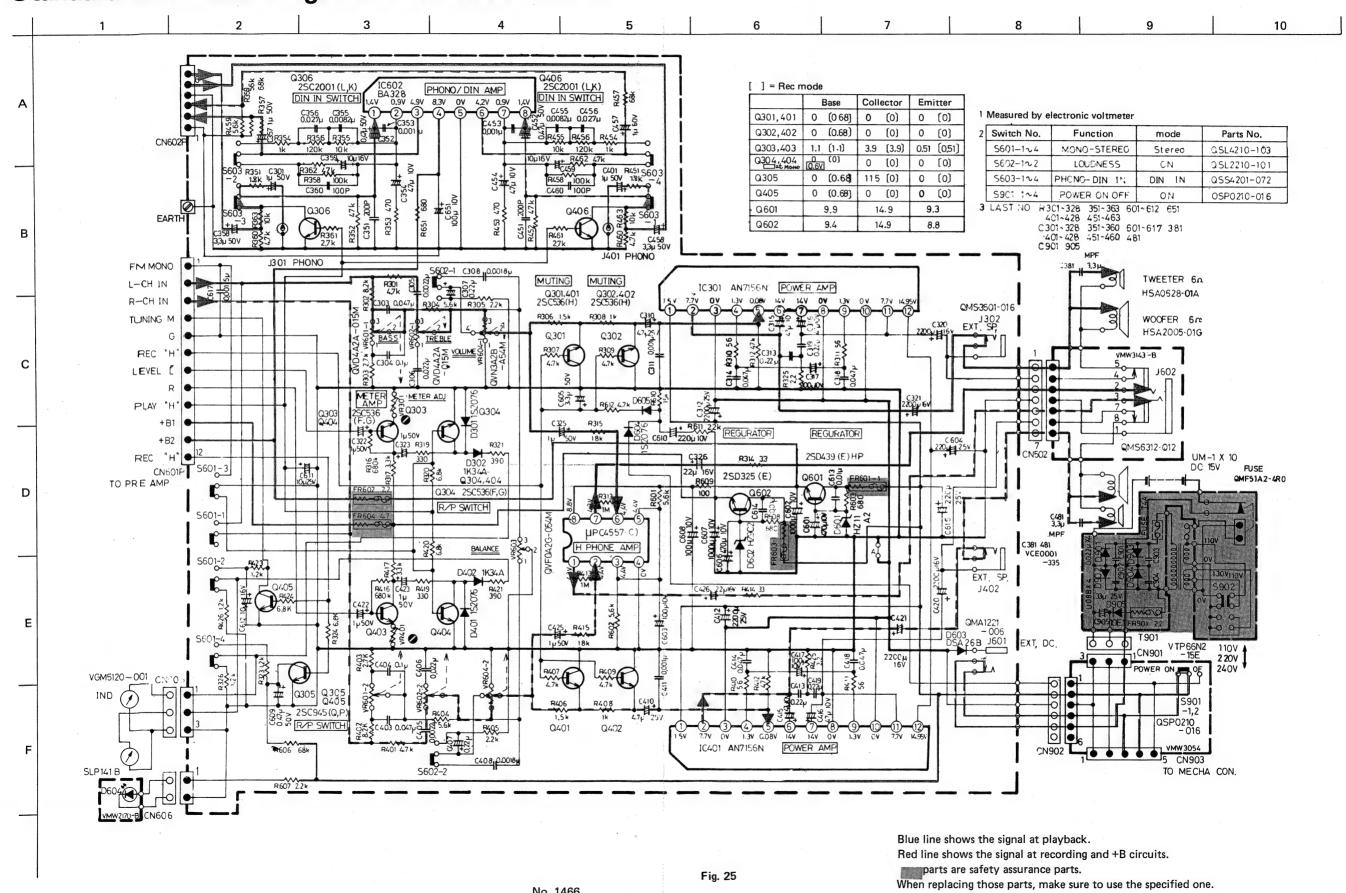


Fig. 23

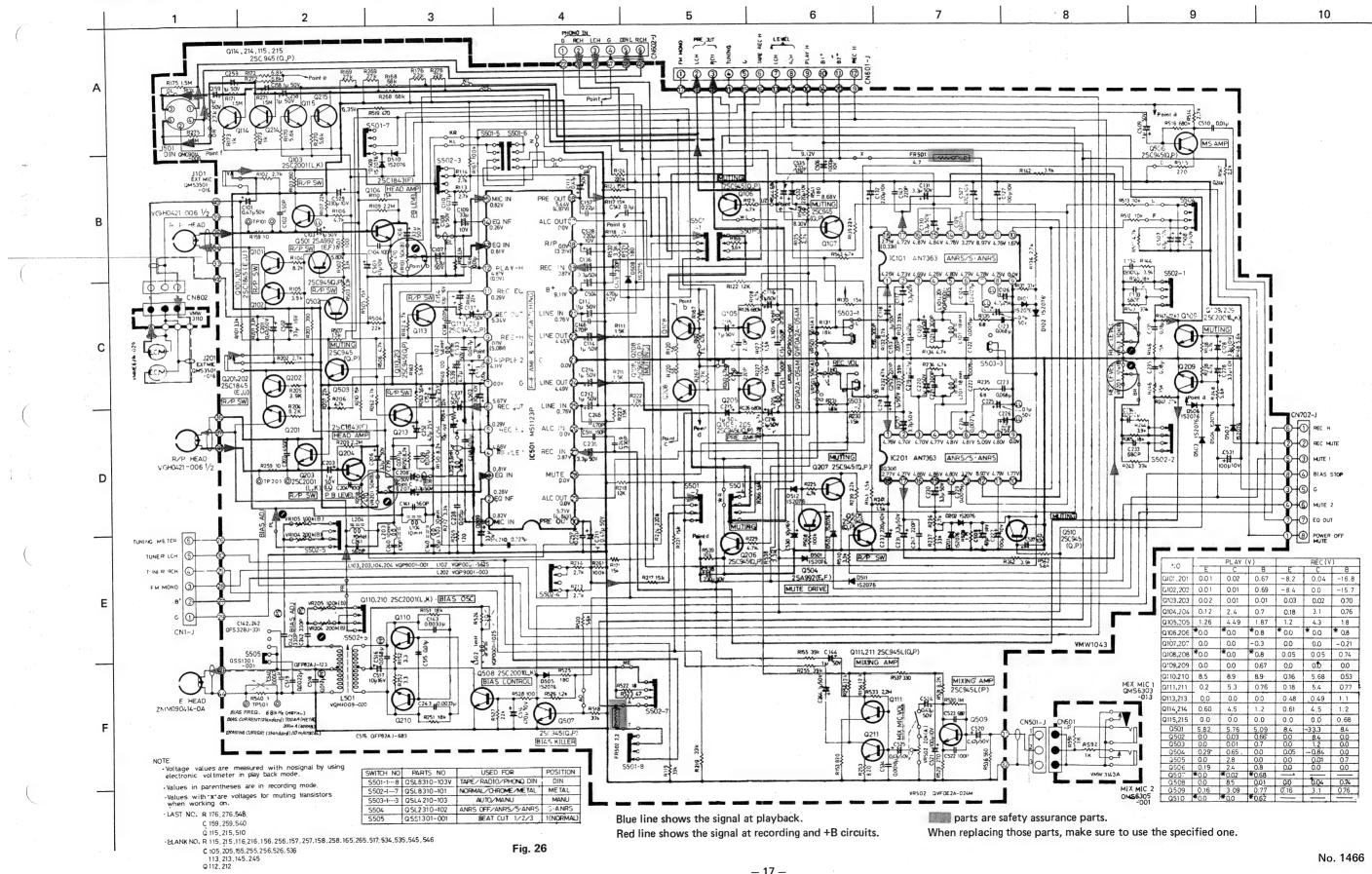
Standard Schematic Diagram of RC-M90 (Tuner Circuit) 10 Q2 2SC535(B) FM MIX Q3 2SA838(C) FM OSC C16 J 5P C13CH CF 1 V03059 200 VOLTAGES ARE MEASURED WITH NO SIGNAL USING ELECTRIC VOLT METER (Fig1) S1-1~4 ··-S8-1~6 (BAND SELECT SMITCH) IS FM POSITION R43 R14 1 K (Fig2) QMV5005 3. LAST NO. R80, C99, C027 BLANK NO. R 18 , 77 C26 , 56 , 87 016 ,017 ,019 023~026 IC1 FM/AM IF AMP HA12413 VQL7S02-301 Q8 2SC929(D) SW1 CONV FM,(AM) . [FM Signal] / Unit. Volt L3 1.8 4.4 C24 10P 1.9 Q15 2SC923(E,U) DC AMP 0 3.3 4.6 4.0 LPF VQZ0011-001 1.9 Q16 2SC 923(E,U) TIME C S.W. D 72 L4 VQR1001-311 -014 019KHz 22 VORIO01 - 312 2.1 (2.1) 0 Q11 2SC929(D) SW4 CONV 10 IC 2 FM MPX AN7410N CN3-P OMV5005 5.2 (5.2) 12 0.41 0.16 (0.56) (2 p-p) (0.58) (4.7) VQR1001-202 C96 0.47 µ 50 V Q14 5.2 8.3 5.9 (5.2) (8.5) (5.9) Ó TP−8 19KHz VQS7502-Q12 2SC929(D) SW5 CONV R40 1.5K (2.1) 25C923(E,U) MONO-ST R59 22K 0 5.2 0.23 (1.3) (5.2) (1.9) 0.9 0.4 0 0.21 0 (0.9) [1.5 p-p] AM Sig (0) (0.6) S2~S7 PL7 VOR 1001-304 Fig1 VOLTAGES 0 60 19 49 QST 3841-V01 3 3 SW5 ~SW1,LW, MW, FM Blue line shows the signal at FM. Red line shows +B circuits, MW and SW signals. (; SHORTING SWITCH) 3 3 Fig. 24

BOTTOM VIEW OF THE BAND SWITCHES

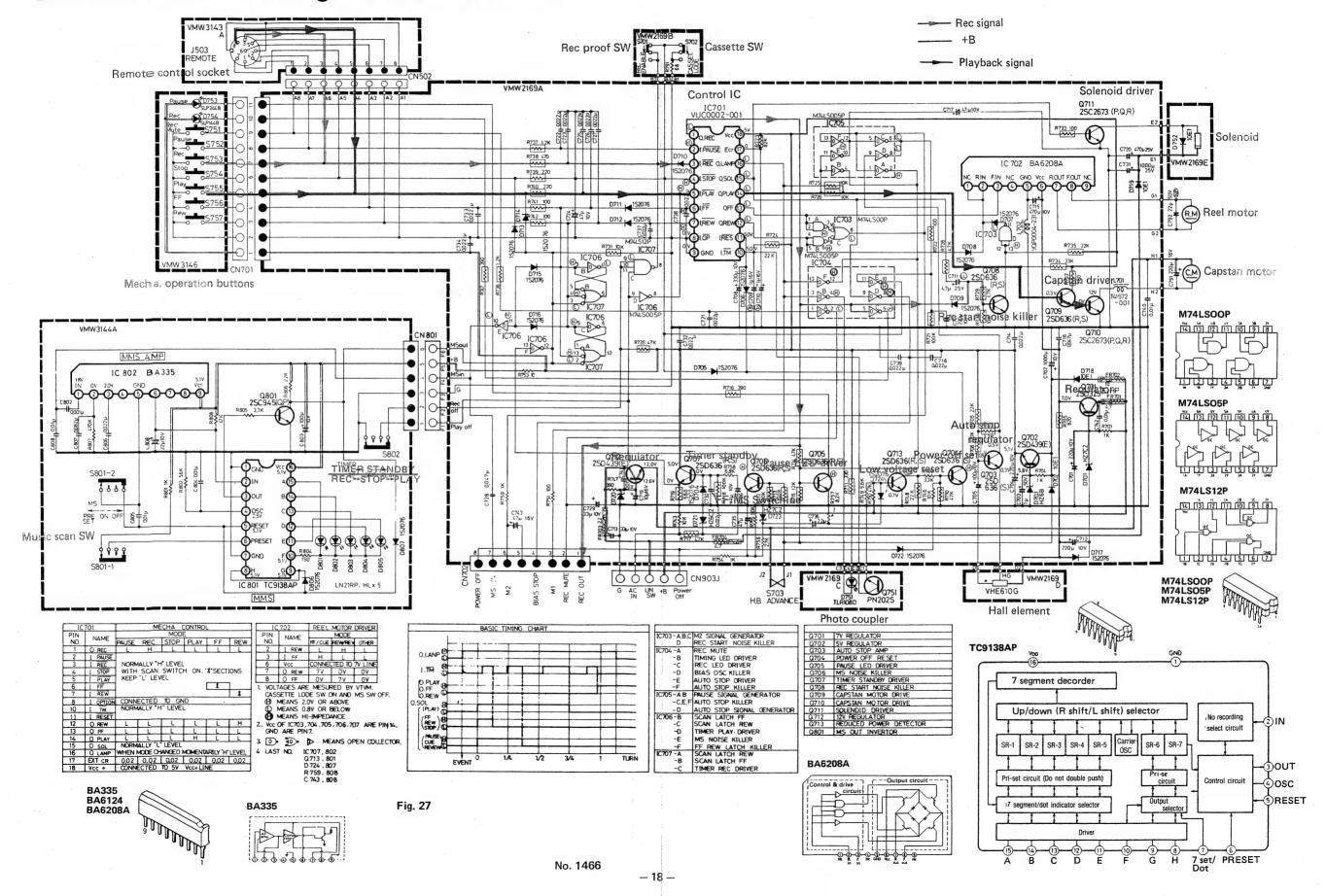
Standard Schematic Diagram of RC-M90 (Pre-Amp Circuit)



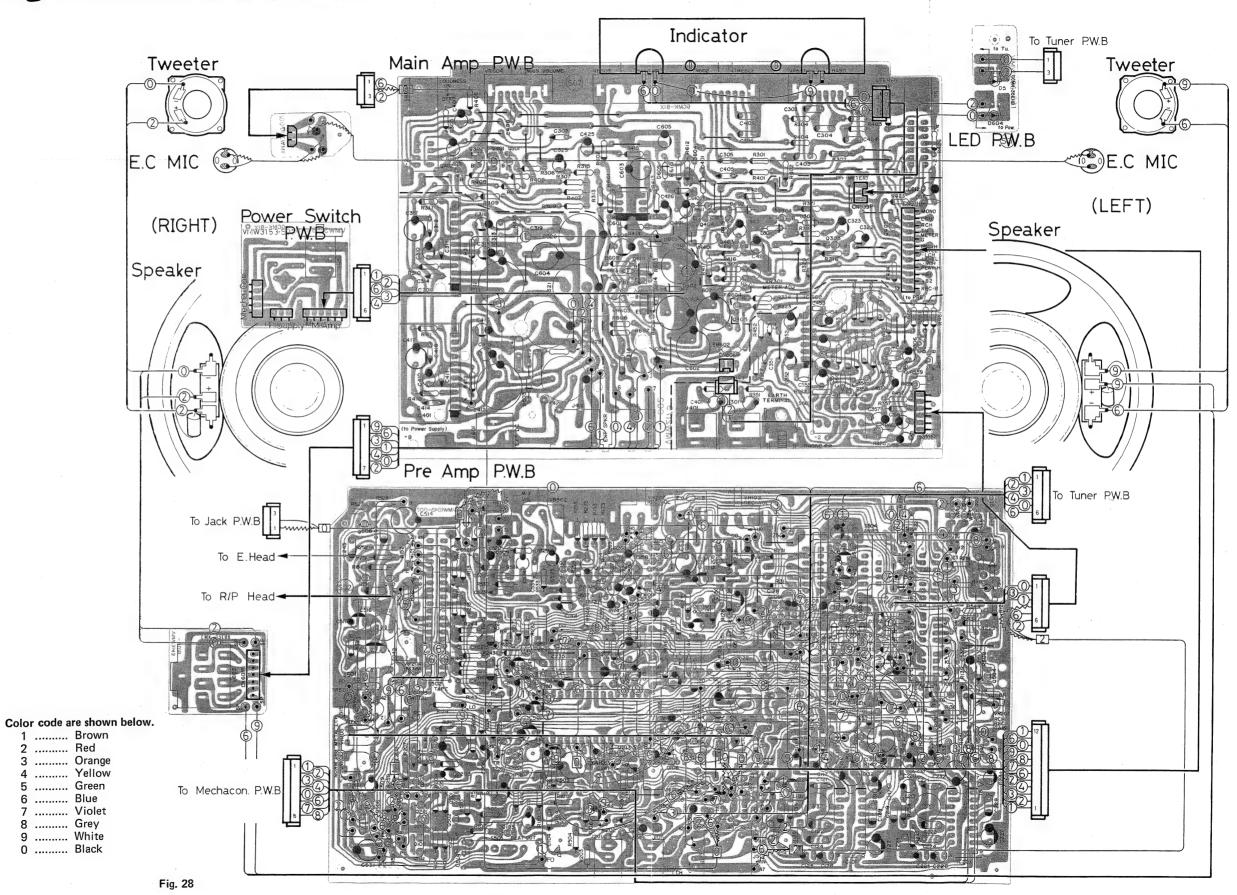
Standard Schematic Diagram of RC-M90 (Main Amp Circuit)



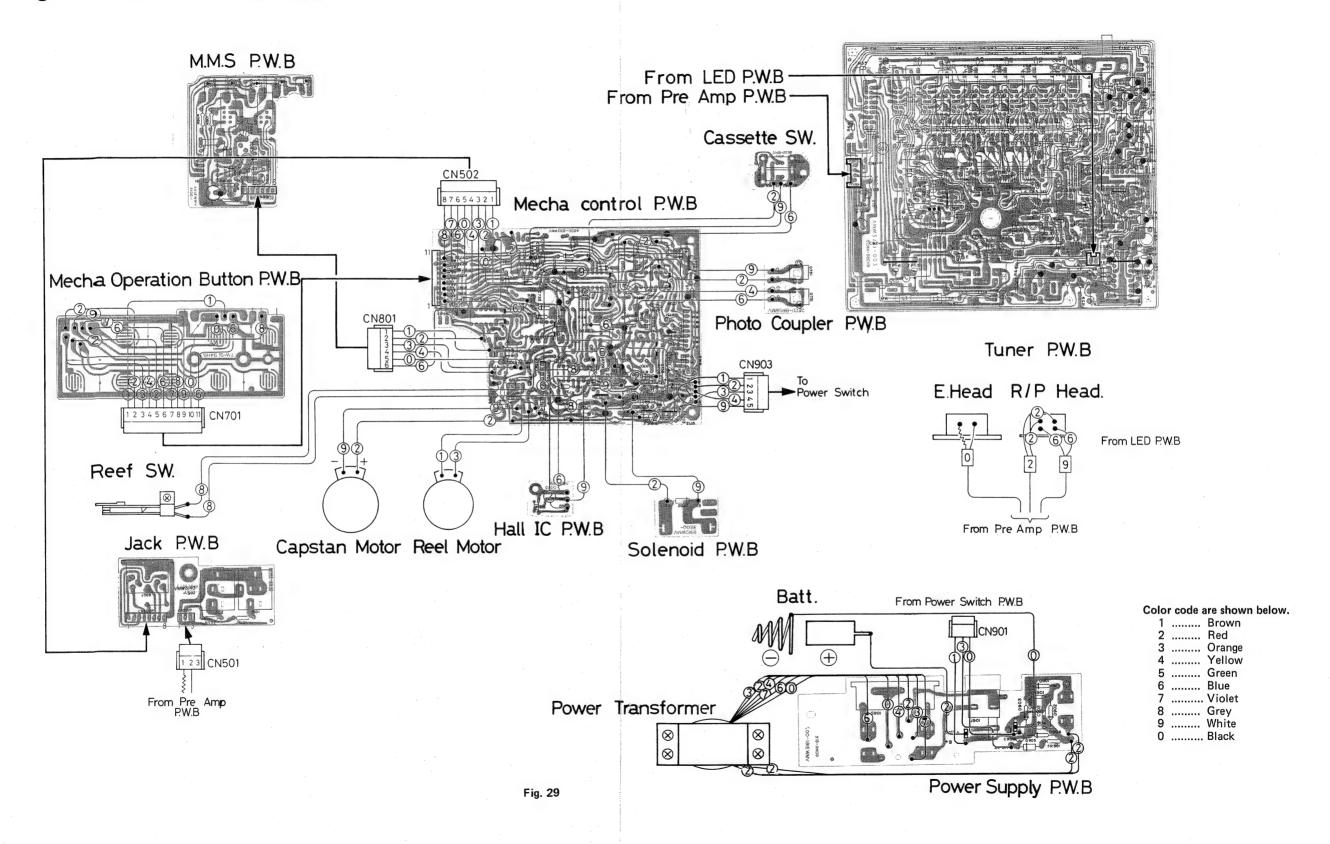
Standard Schematic Diagram of RC-M90 (Mecha. Control Circuit)



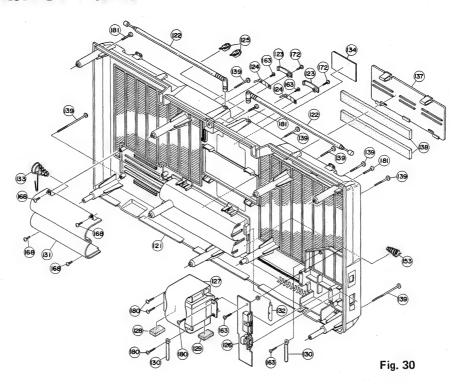
Wiring Connection of RC-M90 (1)



Wiring Connection of RC-M90 (2)



Rear Cabinet Parts

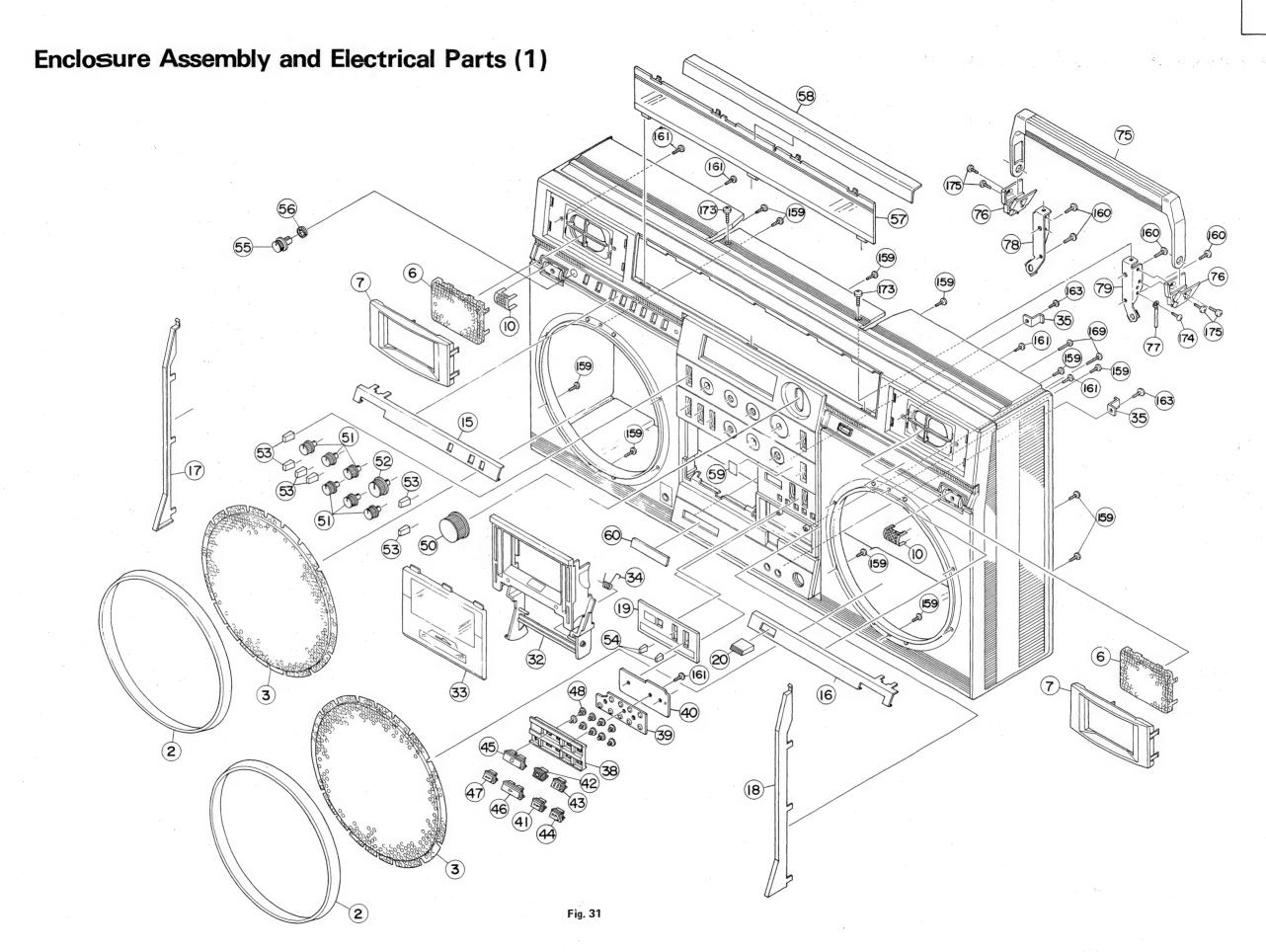


Rear Cabinet Parts List

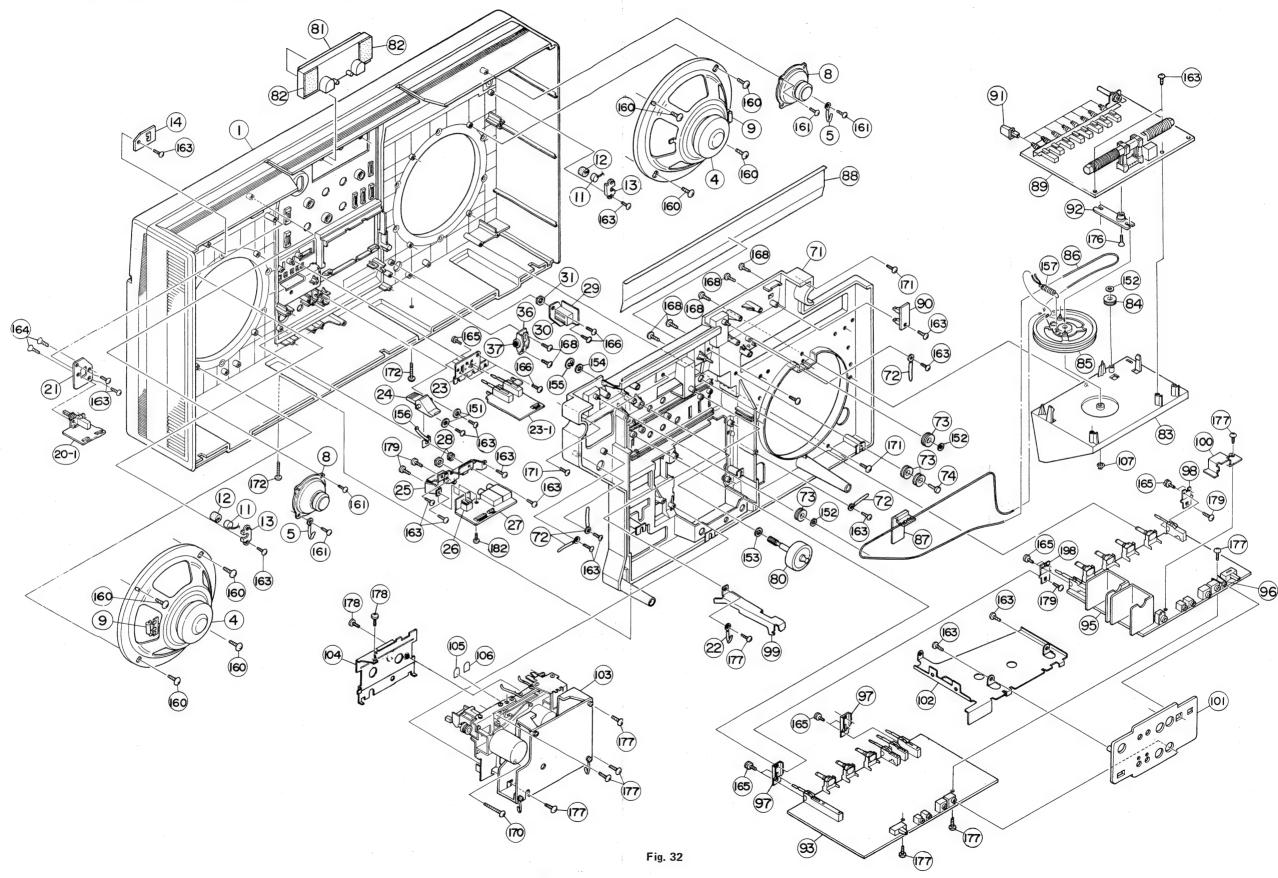
near Capitlet 1 at 2 List						
Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty	
121,134		ZCRCM90L-CBR	Rear Cabinet Ass'y		1	
121		VJC0002-003	Rear Cabinet		1	
122		QZR4234-001U	Rod Antenna		2	
123		VJD4508-001	Ant. Cover		2	
124		VYH4775-001	Rod Ant. Holder		2	
125		V44814-00B	Terminal Ass'y		2	
126			Power Supply P.W.B. Ass'y		1	
127	\triangle	VTP66N2-15EBS	Power Transformer	T901, RC-M90LB	1	
	\triangle	VTP66C2-15E	"	T901, RC-M90L	1	
128		VYSR108-005	Spacer		3	
129		VYSR105-005	"		2	
130		VKZ4001-011	Wire Holder		1	
131		VYH3198-001	Batt. Holder		1	
132		VYH4010-001	Contact		1	
133		VYH4011-001	Battery Spring		2	
134		VYN5072-004Q	Name Plate	RC-M90LB	1	
		" -005Q	"	RC-M90L	1	
137		VJC3004-003	Batt. Cover		1	
138		VYSH106-020	Spacer		2	
139		VKZ4008-002	Special Screw		7	
158		53738-1	Spring		1	
163		SBSF3010Z	Screw	Power P.W.B. — Rear x 1, Rod Ant. Holder x 2	3	
168		SBSF3012Z		Batt. Holder	4	
172		SBSF3012R		Rear — Cover	2	
180		SBSF4020C	"	Trans. — Rear	4	
181		SBSF4018R	"	Rear — Front	3	

Enclosure Assembly and Electrical Parts List

Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
1~			Front Cabinet Ass'y		1
1		VJC0001-004	Front Cabinet		1
2		VJD2177-001	Speaker Ring		2
3		VJD3280-001	Punching Panel		2
4		HSA2005-01G	Speaker	Woofer	2
5		V KZ4001-002	Wire Holder		3_
6		VJD4502-001	Tweeter Panel Tweeter Frame		2
7 8		VJD3281-001 HSA0628-01A	Speaker	Tweeter	2 2
9		VCE0001-335	M.P.F. Capacitor	C381, 481 (3.3 µF)	2
10		VJD4503-001	Mic Panel	C301, 401 (3.3 μ1)	2
11		VMME62N-029	E.C. Mic		2
12		VYH4348-001	Mic Bushing	· ·	2
13		VYH4298-001	Holder		2
14		_	Connector P.W.B.		1
15		VJD4504-002	Plate (L)	BAND	l i
16		VJD4505-003	Plate (R)	POWER	1
17		VJD3282-001	Side Fitting (L)		1
18		VJD3282-002	Side Fitting (R)		li
19		VJD4506-002	Counter Lens		1 1
20-1		_	Power Switch P.W.B. Ass'y		1
20		VXP4135-001	Push Knob		1
21		VYH4763-001	SW. Bracket		1
22		VKZ4001-010	Wire Holder		2
23		VYH4764-001	MMS. Bracket		1
23-1		_	MMS. Board P.W.B. Ass'y		1
24		VXQ4045-001	Eject Lever		1
25		VYH4765-001	Socket Bracket		1
26		QMC0888-010	DIN Socket		1
27		VKZ4150-001	Socket P.W.B. Ass'y Special Nut		1
28 29		V KZ4150-001	Jack P.W.B. Ass'v		1 1
30		VYH4766-001	Jack Holder		1
31		VKZ4150-001	Special Nut		1
32		VJT3069-00A	Cassette Door Ass'y		1
33		VJT3070-00A	Door Lens Ass'y		1
34		VKW4218-001	Door Spring		1
35		VYH4767-001	Door Holder		2
36		VYH4768-001	Damp Holder		1
37		VYH4769-001	Gear		1
38		VJD3284-002	Button Frame		1
39 40		VYH3195-001	Rubber LED P.W.B. Ass'v		1
		VXP4136-002		FF	1
41 42		" -003	Button	Rec	1 1
43		-003 -004	"	Pause	1
44		" -00 5	"	Rec Mute	1
45		VXP4137-001	"	Stop	li
46		" -002	"	Play	1
47		VXP4136-001	"	Rew.	1
48		VYH4770-001	Cap		9
50		VXL4152-001	Tuning Knob		1
51		VXL4153-001	Volume Knob		6
52		VXL4154-001	"	MAIN	1
53		VXQ4046-001	Lever Knob		6
54		VXQ4047-001	"	MMS Meter	2
55		VXL4161-001	Knob	FINE	1



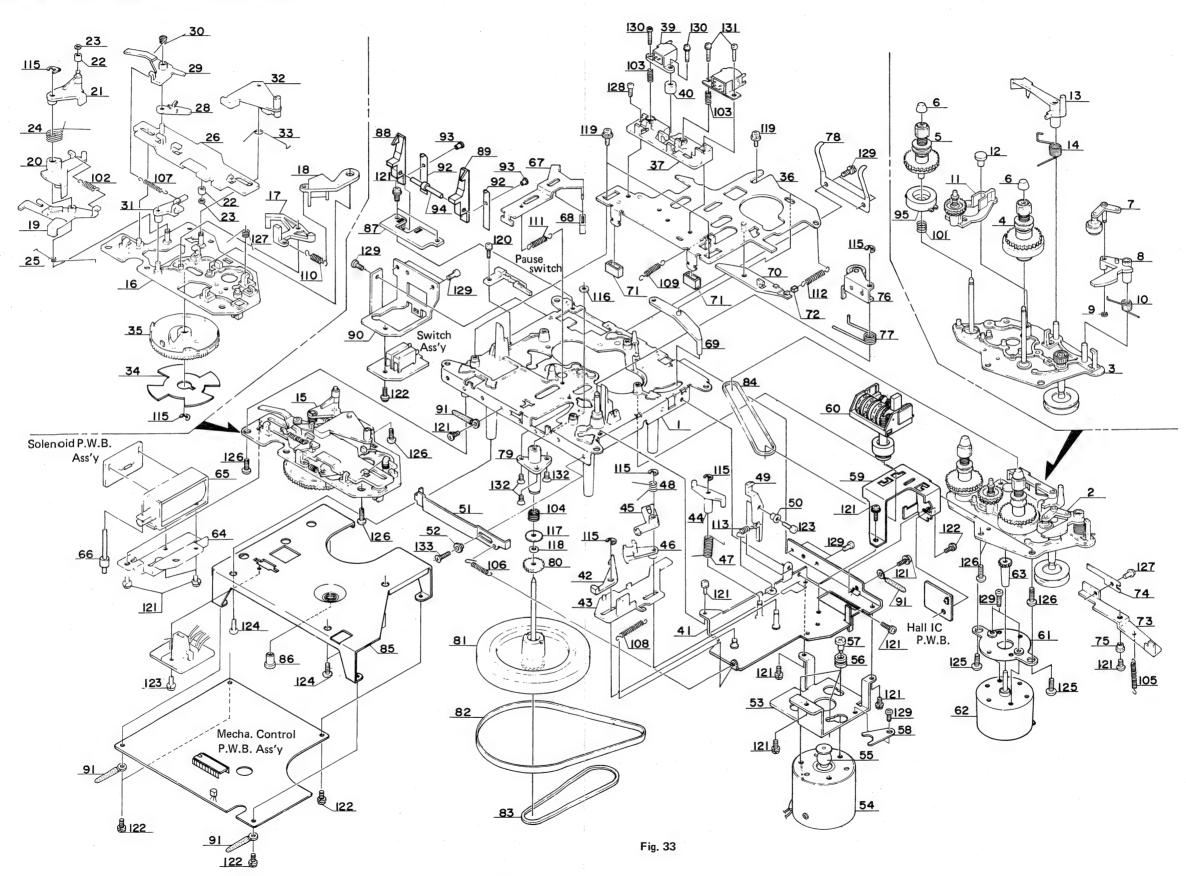
Enclosure Assembly and Electrical Parts (2)



Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q't
56		VYH4575-002	Knob Holder		1
57		VJK3178-001	Dial Lens		1
58		VJK4143-001	Lens Plate		1
59		VND4006-010	Caution Label		1
60		QXM2251-001	Mark		1
71		VYH1123-001	Chassis		1
72		VKZ4001-011	Wire Holder		4
73		VYH4032-001	Roller	·	4
74		VYH4774-001	Stud		1
75		VJH3005-00Q	Handle Ass'y		1
76		VYH4771-001	Supporter		2
77		VKZ4001-010	Wire Holder		1
78		VYH4772-001	Holder Bracket		1
79		VYH4772-002	"		1
80		VYH4777-00A	Tuning Shaft Ass'y		1
81		VGM5120-001	Indicator	IND301, 401	1
82		VYSR102-009	Spacer	t = 20, 20 x 40 mm, Rubber	2
83		VYH2130-002	Tuning Chassis Ass'y		1
84		VYH4032-001	Roller		1
85		VYH3196-001	Dial Drum		1
86		VHR2TK9-05AT	Dial Rope		1
87		VJN4058-001	Needle		1
88		VJK2132-004	Dial Scale	·	1
89		_	Tuner P.W.B. Ass'y		1
90			LED P.W.B. Ass'y		1
91		VXP4143-002	Push Button	Band	8
92		VYH4810-001	Arm	·	1
93		_	Pre-Amp. P.W.B. Ass'y	D 1 DWD 0 1	1
94		QHX2075-001	Wire Clamp	Pre-Amp. P.W.B. x 8, Amp. x 3	11
95		_	Main Amp. P.W.B. Ass'y		<u> </u>
96		VMZ0001-001	Earth Terminal		1
97		VYH4816-001	C.B. Holder (1)		2
98		VYH4817-001	" (2)		2
99		VYH4901-001	Support Bracket		1
100		VYH4864-001	Bracket		-
101		VJD3283-001	Jack Board		1
102		VYH3207-001	Shield		
103			Mecha. Ass'y		
104		VJD4507-001	Cassette Plate Head Plate	R/P Head	
105		VND4012-002	Head Flate		-
106		THC037417-02		E. Head	1
107		RCSA6000	C. Ring	Dial Scale x 5, Jack Board x 1	6
108		VKZ4001-011	Wire Holder Counter Reset Button	Diai Scale X S, Sack Budiu X I	1
109		VKC5145-003S	Counter neset Button		Ι΄
454	+	002001 105	Washer		2
151		Q03091-105 WNB2600N	washer	Roller x 2, Tuning Chassis Ass'y x 1	3
152		Q03093-840		Tionor A 2, Turning Orlassis Ass y A 1	1
153 154		" -837	, H		1
155		REE5000	E-Ring		1
	+	VKY4175-001	Spring		1
156 157		50153-3	Spirity		1
157		SBSF2610Z	Screw	Speaker Ring	12
160		SBSF4010Z	"	Speaker	8
161	+	SBSF2608Z	"	Tweeter Frame x 4, P.W.B Frame x 1	5
163		SBSF3010Z	"	E.C. Mic x 2, Connector P.W.B. x 1,	23
103		350. 00.02		Cabi. – P. SW. Ass'y x 2, Eject Lever x 2,	
				Socket Ass'y – Cabi. x 4, Door Holder x 2	
				LED Ass'y – Chassis x 1, Shield x 2,	
				Wire Holder x 5	
104		CCCD200675	"	Power Switch Ass'y	2
164 165		SSSP3006ZS SSSP3006M	"	SW. — Holder	8
		: つつつてろUUDIVI		I DIV. — HOIGE	, ,

Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
166		SBSF3008Z	Screw	Front – MMS. Ass'y x 2, Jack P.W.B. x 2, Speaker x 4	8
167		SPSP3006MS	"	Socket Ass'y x 2, TU chassis – Chassis x 5	7
168		SBSF3012Z	"	Gear	2
169		SBSF2616Z	"	Frame — Cabi.	2
170		SBSF3030V	"	Mecha. — Chassis — F. Cabi.	1
171		SBSF3014C	"	Chassis – F. Cabi.	7
172		SBSF3012R	"	"	2
173		SDSP3008RS	"	"	2
174		SBSB3006Z	"	Wire Holder	1
175		DPSP3018ZS	"	Holder Bracket	4
176		SSSP2608Z	"	Arm	1
177		SBSF3010V	"	Mecha. — Chassis	4
178		SDSB2605R	"	Mecha. Ass'y	2
179		SBSF3012V	"	C.B. Holder — Chassis x 2, Jack Board x 4,	9
				Supporter Bracket x 1, TU Chassis – Tu	
				Cabinet x 2	
182		SBSB3008Z	"	Socket Ass'y	1
183		SSSP3006M	"	Bracket - Switch	4

Mechanical Component Parts



Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1 2 3 4 5	VKL1162-00F VKL3214-00F VKL3215-00B VKR4246-00A VKR4247-00A	Chassis Base Ass'y Reel Disk Ass'y Unit Reel Disk Bracket Ass'y Reel Disk Ass'y Reel Disk Ass'y	Take-up Supply	1 1 1 1
6 7 8 9 10	VKR4160-001 VKS4240-00A VKS4170-001 TEP357421-05 VKW4181-001	Reel Stopper Idler Arm Ass'y Take-up Lever Special Washer Take-up Lever Spring	Take-up Arm	2 1 1 1 1 1 1
11 12 13 14 15	VKS4203-00B VKS4174-001 VKS4175-001 VKW4182-001 VKL3217-00D	FF. Rew. Gear Ass'y Lock Pin Neutral Arm Neutral Arm Spring Drive Gear Ass'y Unit		1 1 1 1 1
16 17 18 19 20	VKL3218-00B VKS4176-001 VKS4177-001 VKS4178-001 VKS4179-001	Gear Holder Ass'y Stop Arm Kick Arm Pause Arm (3) " (2)		1 1 1 1
21 22 23 24 25	VKS4180-00A VKH3000-031 VKZ4004-001 VKW4183-001 VKW4184-001	Pause Arm (1) Ass'y Collar Special Washer Pause Arm Spring	Pause Arm (1), (2) Pause (3)	1 2 2 1 1
26 27 28 29 30	VKS4182-00B VKW4185-001 VKS4184-001 VKS4185-001 VKW4186-001	Slide Bar Ass'y Slide Bar Spring Play Arm (2) " (3) Play Arm Spring		1 1 1 1
31 32 33 34 35	VKS4186-001 VKS4187-001 VKW4187-001 VKZ4134-002 VKS3114-002	Brake Arm Play Arm (1) Play Arm (1) Spring Control Plate Drive Gear		1 1 1 1
36 37 38 39 40	VKL3220-00C VKS2102-001 VGH0421-006 ZMM090414-0A VKH4215-001	Slide Bar Ass'y Head Mount Base R/P Head E. Head Head Collar	VND4012-002 = Head Plate THC037417-02 = Head Plate	1 1 1 1
41 42 43 44 45	VKL3264-00B VKS4190-001 VKS4334-001 VKS4191-001 VKS4234-001	Side Bracket Ass'y Eject Arm Eject Slide Bar Safety Arm (1) Safety Arm (2)		1 1 1 1 1
46 47 48 49 50	VKS4235-001 VKW4188-001 VKW4220-001 VKS4342-001 VKH3001-039	Safety Arm (3) Safety Arm Spring " Lock Arm Flange Collar		1 1 1 1
51 52 53 54 55	VKL4661-002 VKH4306-001 VKL4879-001 MHI-5E2LDPB VKS4188-004	Stop Slide Bar Collar Motor Bracket Motor Motor Pulley	Capstan	1 1 1 1
56 57 58 59 60	VKZ4130-001 VKZ4109-001 TFB345469-01 VKL5014-001 VKC5145-002S	Cushion Rubber Motor Screw Rubber Stopper Counter Bracket Tape Counter		3 3 1 1 1
61 62 63 64 65	VKL4657-003 BFT6B01 VKS4193-002 VKL4658-002 VGP0401-005	Reel Motor Bracket Reel Motor Motor Gear Solenoid Bracket D.C. Solenoid		1 1 1 1

Ref. No.	Parts No.	Parts Name	Remarks	Q't
66	VKH4324-001	Solenoid Pin		1
67	VKL4659-001	Brake Bar	•	1
68	VKZ4129-001	Brake Rubber		2
69	VKS4353-001	Take-off Lever		1
70	VKS4277-001	Slide Base Arm		1
71	T44341-001	Rubber Tire Silencer		2
72	TJN265559-04 VKL4925-001	Kick Lever		
73 74	VKY4204-002	Spring Plate	•	1
74 75	VKH3001-024	Flange Collar		1 i
76	VKP4106-00B	Pinch Roller Arm Ass'y		1
70 77	VKW4189-001	Pinch Roller Spring		1
78	VKY4171-001	Pack Spring		1
79	VKF4108-00A	Capstan Metal Ass'y		1
80	VKS4199-001	Flywheel Gear		1
81	VKF3114-00B	Flywheel Ass'y		1
82	VKB3001-012	Belt	Capstan	1
83	VKB3000-017H	"	Take-up	1
84	" -031H	"	Counter	1
85	VKL3305-001	Flywheel Holder		1
86	TEP357456-01	Thrust Bearing		1
87	VKS4271-001	Arm Holder		1
88	VKS4322-001	Rec. Safety Arm		1
89	VKS4323-001	Cassette Switch Arm		1
90	VKL4881-003	SW. Bracket		1
91	VKZ4001-007	Wire Holder		4
92	VKY4204-001	Safety Plate		2
93	VKS4324-001	Pin		2
94	VKH4291-001	Shaft Back Tension Base		1 1
95	VKS4247-001		Pools Tourism	1
101	THIS DWG. VKW3000-014	Comp. Spring Tension Spring	Back Tension Pause Arm (2), (3)	1
102 103	VKW3000-014 VKW3001-020	Comp. Spring	R/P, E. Head	2
103	VKW3001-020	"	Thrust	1
105	VKW3002-011	Tension Spring		1
106	" -020	"	Stop S. Bar	1
107	-022	"	Play Arm (3), Brake Arm	1
108	" -038	"	Eject S. Bar	1
109	" -042	"	Slide Base	1
110	·· -046		Kick Arm	1
111	" -054	"	Brake Bar	1
112	′′ -060	",	Slide B. Arm	1
113	-066		Lock Arm	1
115	REE2500	E-Ring	Pause Arm (1) Ass'y x 1, Drive Gear x 1, Eject Slide	6
445	000000 500	M/ I	Bar x 3, Pinch Roller Spring x 1	-
116	Q03093-522	Washer	Oil Cut	1
117	" -628 " -827	"	Thrust	1 1
118 119	DPSP2605Z	Screw	Slide Base	3
120	LPSP2004Z	Ass'y Screw	Pause SW.	1
121	LPSP2604Z	"	Motor Bracket, Counter Barcket x 5, Side Bracket	13
121	210,20072		x 2, Solenoid, Solenoid Bracket x 4, Flange Collar	.5
			x 1, Wire Holder x 1	
122	LPSP2605Z	"	Mecha. Con, Auto Stop, Rec. Safety	6
123	LPSP2606Z	,,	Lock Arm x 1, Photo C. x 1	2
124	SBSB2608Z	Tapping Screw	Flywheel Holder	3
125	SPSA2608Z	"	Motor Bracket	2
126	SPSB2608Z	"	Reel Unit x 3, Gear Ass'y Unit x 3	6
127	SPSP2003Z	Screw	Spring Plate	1
128	SPSP2004N	"	H. Mount Base	1
129	SPSP2603Z	"	Rubber Stopper x 1, Side Bracket x 2, Reel Motor	10
400	anayessa:	,,	x 2, Pack Spring x 2, SW. Bracket x 3	_
130	SPSX2008N		E. Head	2
131	SPSX2010N	" "	R/P Head	2
132 133	SSSP2605Z SSSP2606Z	" "	Capstan Metal Stop Slide Bar	3
100	i eccupana/	1 17	I STOD SUIGE KAR	1 1

Tuner P.W. Board Parts

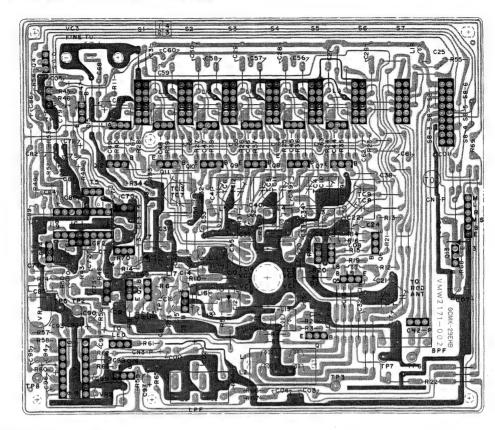


Fig. 34

Tuner P.W. Board Parts List

Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
		VMW2171-002	P.W. Board	No supply as parts ass'y	1
Q1, 2		2SC535(B)	Transistor		2
03		2SA838(C)	"		1
Q4		2SK246(GR,BL)	FET		1
Q5-12		2SC929(D)	Transistor		8
Q13		2SD468(C)	. "		1
Q14, 15, 16		2SC923(E,U)	"		3
IC1		HA12413	IC		1
IC2		AN7410N	"		1
D1		1S553T	Vari Cap		11
D2, 5		1K34A	Ge. Diode		2
D3		HZ6C1L	Zener Diode		1
D4, 6, 7		MA150	Si. Diode		3
BPF		VBP3M4E-001	B.P. Filter		1
CF1, 2		V03059-013	C. Filter		2
LPF		VQZ0011-001	L.P. Filter		1
VR1, 2		QVP8A0B-014	V. Resistor	10 kΩ	2
T1		VQT7F12-104	IFT		1
T2		VQT7F07-501	"		1
T3, 4, CF3		VQT7A31-104			1
T5		VQT7A11-301	"		1
L1, 2		VQB014B-301	Bar Ant. Ass'y	MW, LW	1
L3		VQR1001-314S	ANT. Coil	SW1	1
L4		" -311	"	SW2	1
L5		<i>"</i> -312	"	SW3	11
L6		" -202	"	SW4	1
L7		" -315	"	SW5	1
L8		VQM7T03-301	OSC. Coil	MW	1
L9, 10		VQL7S02-301	"	LW, SW1	2 2
L11, 12		VQS7S02-302	"	SW2, SW3	2

Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
L13		VQS7S02-303	OSC. Coil	SW4	1
L14		" -305	"	SW5	1
L15		VQF1B12-001	RF Coil	FM	1
L16		V03105-029	OSC. Coil	FM	1
L17		V03047-6	Coil	FM	11
L18		V03047-21	"	SW	1
L19, 20		VQP0003-471	Inductor		2
R1		QRD161J-334	C. Resistor	330 kΩ 1/6 W	1
R2		" -332	"	3.3 kΩ "	1
R3		" -680	"	" α 86	1
R4, 8		" -271	"	270 Ω "	2
R5, 43, 47, 64, 65		QRD141J-103S	. "	10 kΩ 1/4 W	5
R6, 70		QRD161J-273	"	27 kΩ 1/6 W	2
R7, 14, 58, 75		" -102	"	1 kΩ "	4
R9, 48		′′ -474	"	470 kΩ "	2
R10, 36	 	″ -561	,,	560 Ω "	2
R11, 80		" -154	"	150 kΩ "	2
R12		QRD141J-223S	"	22 kΩ "	1
R13		QRD161J-564	"	560 kΩ "	li
R15,19,21,35,37,38,71,73		" -101	"	100 Ω "	8
		-101	"		
R16		-4/0	",	4/ 22	1
R17, 41, 61		-331		330 44	3
R20,22,29—34,40,66,67,68		-152	,,	1.5 K32	12
R23–26, 28		-004	"	680 kΩ "	5
R27		-105		1 10177	1
R39		" -471	"	470 Ω "	1
R42		" -221	"	220 Ω "	1
R44, 49		" -562	"	5.6 kΩ "	2
R45		′′ -472	"	4.7 kΩ "	1
R46		" -563	"	56 kΩ "	1
R50, 51		· · · · · · 104	"	100 kΩ "	2
R52	l	QRD141J-222S	"	2.2 kΩ 1/4 W	1
R53, 62		QRD161J-272	"	$2.7 \text{ k}\Omega$ $1/6 \text{ W}$	2
R54		′′ -473	"	47 kΩ "	1
R55		′′ -103	"	10 kΩ "	1
R56		" -100	. "	10 Ω "	1
R57		" -183	"	18 kΩ "	1
R59		" -223	"	22 kΩ "	1
R60, 79		" -682	"	6.8 kΩ "	2
R63		QRD141J-272S	, "	$2.7 \text{ k}\Omega$ $1/4 \text{ W}$	1
R69		" -272S	<i>"</i>	2.7 kΩ "	1
R72		" -823S	"	82 kΩ 1/6 W	1
R74		QRD161J-330	n - /	33 Ω "	1
R76		QRD141J-562S	"	5.6 kΩ 1/4 W	i
R78		" -820S	,,	82 Ω 1/6 W	1
TC1, 2		QAT2002-001	T. Capacitor	02 15 1/0 W	i
TC4, 10		" -001	" Capacitor		li
TC5, 11	_	" -001	,,		1
		" -001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·	1
TC6, 12		" -001	,,		1
TC7, 13		" -001	,,		
TC8, 9		QAP1224-521	1		1 6
VC1-1, 2, VC2-1, 2,		QAF 1224-521	V. Capacitor		٥
3, 14, 15, 16		00014111400	0.0	10 - 5 - 50 - 1	
C15, 36		QCS11HJ-180	C. Capacitor	18 pF 50 V	2
C2, 3, 8, 9, 09		QCF11HP-103	,,	0.01 μ1	5
C4, 53		QCS11HJ-240	,,	24 pr	2
C5		-0110	"	o pr	1
C6		-100		10 pr	11
C7		" -471	"	470 pF "	1
C10		QCC11EM-103	"	0.01 μF 25 V	1
		QCT05CH-7R0	"	7 pF 50 V	1
C11				1 / pi 30 v	
C11 C12, 58, 65		" -240	"	24 pF "	3 2

Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
C16, 33, 026, 1		QCS11HJ-5R0	C. Capacitor	5 pF 50 V	4
C17		" -2R0	"	Z pr	10
C18, 38-43, 71, 46, 48		QCY41HK-222		0.0022 μ1	11
C19, 20, 69, 73, 74, 76,		QCC11EM-473	그 사이에 가장 그 사람들이 살	0.047 F 25 V	'''
82, 83, 92, 08, 015	1		<i>1</i>	070 - 5	1
C21		QCS11HJ-271	"	270 pF 50 V	
C22,72,77,80,06,018,027		QCC11EM-223	<i>"</i>	0.022 μF 25 V	7
C23, 44, 03, 04	1	QCY41HK-472	<i>!!</i>	0.0047 μF 50 V	4
C24		QCT05YL-100	"	10 pF	1
C25		QCS11HJ-8R0	n.	8 pF 50 V	1
C27-31		" -390	"	39 pF "	5
	1	" -270	"	27 pF "	2
C32, 37	1	″ -120	"	12 pF "	2
C34, 52		" -300	<i>n</i>	30 pF "	1
C35	1	QCY41HK-182	"	0.0018 μF "	2
C45, 47	1	" -272	"	0.0027 μF "	2
C49, 011			"		1
C50		QCT05CH-560	"	56 pF "	1
C51		QCT05WK-200	"	20 pF	1
C54		QCS11HJ-200		20 pF 50 V	
C55		QCT05ZL-100	<u>"</u>	10 pF	1
C57		QCY41HK-471	"	470 pF 50 V	1
C59		" -821	"	820 pF "	1
C60		" -332	"	0.0033 μF "	1
C61		QFS41HJ-361	P. Capacitor	360 pF "	1
C62		QFS41HJ-181	C. Capacitor	180 pF "	1
		" -122	"	0.0012 μF "	1_1_
C63	+		"	330 pF "	1
C64		-331	,,	560 pF "	1
C66		-501	,,	0.0033 μF "	1
C67		-332	,,	47 pF "	1
C68	1	QCS11HJ-470	,,	0.0015 μF "	li
C70		QCY41HK-152			
C75		QET41AR-476	E. Capacitor	47 μF 10 V	1
C78, 88, 91, 05	i	QET41ER-475	"	4.7 μF 25 V	4
C79		QET41AR-336	"	33 μF 10 V	1
C81, 07		" -477	"	470 μF "	2
C84	Ì	QET41HR-105	"	1 μF 50 V	1
	+-	" -104N	E. Capacitor	0.1 μF "	1
C85		QCC11EM-473	L. Capacitoi	0.047 μF "	2
C86	1	QCS11HJ-121	C. Capacitor	120 pF "	1
C89		QET41AR-107	E. Capacitor	100 μF 10 V	1
C90			P. Capacitor	470 pF 50 V	1
C93		QFS41HJ-471	E. Capacitor	0.22 µF "	1
C94		QEB41HM-224	E. Capacitoi		1
C95		-474M		0.47 μΓ	1 .
C96, 01, 02		QET41HR-474	"	0.47 μΓ	3
C97	l	QET41CR-226	"	22 μF 16 V	1
C98, 99		QFM41HK-103	M. Capacitor	0.01 μF 50 V	2
C010, 012, 014		QCS11HJ-151	C. Capacitor	150 pr	3
C013		QCC11EM-333	"	0.033 μF 25 V	1
C020, 022		QCS11HJ-2R0	"	2 pF 50 V	2
	1	QCS11HJ-3R0	"	3 pF "	1
C021		LPSP3006ZS	Screw		1
		51739-2	Lug		1
1400		QAT5001-201	M.U. Capacitor		1
VC3					1
		VYH4776-001	Bracket		2
		LPSP3008ZS	Ass'y Screw		1
S1-14, S2-14, S3-14,		QST3841-V01	Push Switch		'
S4-14, S5-14, S6-14,					
S7-14, S8-16					+
		VYSA1R6-009	Spacer		2
		VKL3143-001	Board in Tab		4
		VYH4906-001	Shield		1
CN1 P		QMV5005-006	Connector	PRE	1
CN1-P		" -003	, , , , , , , , , , , , , , , , , , , ,	ANT	1
CN2-P		" -003	"	LED	1
CN3-P		1			i
		VMW3156-001	P.W. Board		2
D5, 603		SLP141B	LED	1	1 4

Pre-Amp P.W. Board Parts

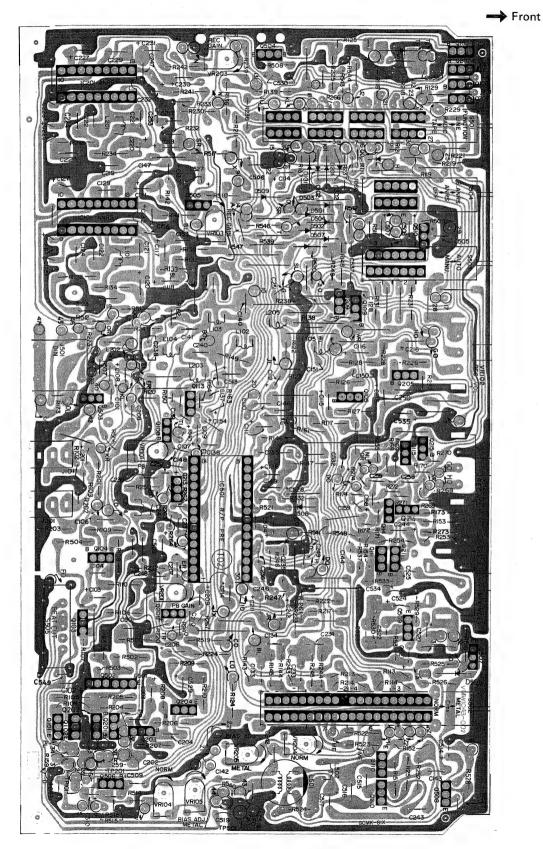


Fig. 35

Pre. Amp. P.W. Board Parts List

 $\underline{\Lambda}$ Parts are safety assurance parts. When replacing those parts, make sute to use the specified one.

Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
		VMW1043-002	P.W. Board	No supply as parts ass'y FUNCTION	1
S501-1 8		QSL8310-103V	Lever Switch	TAPE	1 1
S502-1 7		" -101 QSL4210-103	"	AUTO/MANU.	1
S503-1 3 S504		QSL2310-103	. <i>II</i>	ANRS	i
S505		QSS1301-001	Slide Switch	BEAT CUT	1
VR101, 201		QVP8A0B-054	V. Resistor	PB LEVEL 50 $k\Omega$	2
VR102, 202		QVF0A2A-054M	"	REC VOL 50 k Ω	2
VR103, 203		QVP8A0B-014	"	REC LEVEL 10 kΩ	2
VR104, 204		-025	"	BIAS 200 kΩ	2
VR105, 205		-013	,,	BIAS 10 kΩ MIC MIX 20 kΩ	2
VR502		QVF0E2A-024M QMS3501-016	Jack	MIC	2
J101, 201		QMC9014-006	DIN Socket	DIN	1
J501		Q03095-206	Washer		1
		VYH3108-002	Shield Plate		1
		VYH4904-001	Spacer		1
L501		VQH1009-020	OSC. Coil	BIAS	1
L502		VQP0001-102S	Inductor		1
L101, 201		" -183S			2
L102, 202		" -562S	"		2
L103,203,104,204,105,205		VQP9001-001			6
IC501		M51123P AN7363	IC "		2
IC101, 201 Q101, 201, 102, 202		2SC1845(E,U)	Transistor		4
Q101, 201, 102, 202 Q104, 204		2SC1845(E,0)	"	or 2SC1843(F)	
Q104, 204 Q105,205,111,211,509,114,2	214	2SC945L(Q,P)	"	0. 200 10 10(1.)	7
Q106-108,206-208,113,21	3,	2SC945(Q,P)	"		16
115,215,502,503,505-507	,				
510	1		,,,		_
Q109,209,110,210,508,103,	203	2SC2001(L,K)	"		7
Q501, 504		2SA992(E,F)			16
D101,201,102,202,501-512		1S2076 QRD143J-332S	Si. Diode C. Resistor	3.3 kΩ 1/4 W	3
R101, 201, 538 R102, 202, 514		" -272S	"	2.7 kΩ "	3
R103, 203		" -391S	"	390 Ω "	2
R227,507,211,127,141,241		" -152S	"	1.5 kΩ "	6
R172,272,544		QRD141J-682S	"	6.8 kΩ "	3
R105,205,144,244,142,242		" -392S	"	3.9 kΩ "	6
R106,206,125,225,128,228,		" -472S	"	4.7 kΩ "	13
134,234,140,240,167,267,		^			
506		" -2235	"	22 k0 "	7
R107, 207, 160, 260, 176,		" -223S		22 kΩ "	'
276, 504	1	″ -471S	,,	470 Ω ″	3
R108, 208, 519 R109, 209, 533		" -225S	"	2.2 ΜΩ "	3
R110, 210, 117, 217, 130,		" -153S	"	15 kΩ "	10
230, 146, 221, 223, 505					
R111		QRD161J-152	"	1.5 kΩ 1/6 W	1
R212, 502, 503, 510, 532		QRD141J-332	"	$3.3 \text{ k}\Omega$ 1/4 W	5
R113,213,114,214,136,236		" -272	"	2.7 kΩ "	8
174, 274		" -123	,,	12 kΩ "	5
R118, 218,154, 254, 222		" -123 QRD161J-333	"	$33 \mathrm{k}\Omega$ 1/6 W	1
R119	 	QRD141J-333S	"	33 kΩ 1/4 W	6
R219,137,237,143,243,518 R120, 220		" -560S	"	56 Ω "	2
R120, 220		QRD161J-153	"	15 kΩ 1/6 W	1
R121		QRD143J-123S	"	12 kΩ 1/4 W	1
R123, 246		" -153S	"	15 kΩ "	2
R124, 224		QRD141J-224S	"	220 kΩ "	2
R126, 226		" -684S	"	680 kΩ "	2
R129, 229		QRD161J-472	"	4.7 kΩ 1/6 W	2
R133, 155, 255, 233		QRD141J-393S	,,	39 kΩ 1/4 W	4
R132	1	/ " -473S	1	47 kΩ "	1

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Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
R232, 162, 262		QRD143J-473S	C. Resistor	47 kΩ 1/4 W	3
R135, 235		QRD141J-680S		68 Ω "	2
R138, 238, 511, 543		QRD143J-472S	"	$4.7 \text{ k}\Omega$	4
R139, 239		QRD141J-222S	"	2.2 kΩ "	2
R147, 247, 169, 269		" -273S	"	27 kΩ "	4
R145, 245, 151, 251, 131, 231		″ ⊦183S	"	18 kΩ "	6
R148, 248, 520		" -562S	"	$5.6 \text{ k}\Omega$	3
R149, 249		" -121S	"	120 Ω "	2
R150		QRD143J-822S	"	8.2 k Ω	1
R250, 531, 104, 204		QRD141J-822S	"	8.2 kΩ "	4
R152, 252		-3033	,,	3.3 44	2
R153, 253		-0213	"	820 Ω " 10 Ω "	2 2
R159, 259		-1003	,,	10 32	
R161, 261, 508		-1043	"	100 k Ω " 22 k Ω "	3
R164, 264, 527		ORD143J-223S " -683S	,,	68 kΩ "	3 2
R168, 268		" -562S	"	5.6 kΩ "	7
R170, 270, 163, 263, 166, 266, 542		-5025	·	3.0 Ku2	
R171, 271		" -155S	"	1,5 ΜΩ "	2
R171, 271		" -102S	",	$1 k\Omega$ "	2
R175, 275		" -155S	"	1.5 ΜΩ "	2
R501, 528		QRD141J-101S	"	100 Ω ″	2
R509, 530		" -105S	"	1 ΜΩ "	2
R512, 539		QRD143J-103S	,,	10 kΩ "	2
R513		QRD141J-103S	"	10 kΩ "	1
R515		QRD143J-221S	"	220 Ω "	1
R516		" -684S	"	680 kΩ "	1
FR501	\triangle	QRH141J-4R7	Fusible Resistor	4.7 Ω "	1
R521, 541		QRD143J-181S	C. Resistor	100 77	2
R522	A	QRD149J-180S	Unflamable resistor	18 Ω "	1
R523	\bigwedge	" -470S	",	4/22	1
R524	\triangle	-1003		10 Ω "	1
R525		ORD141J-181S " -122S	C. Resistor	1.2 kΩ "	1 1
R526		" -271S	"	270 Ω "	1
R529		-2/13 " -561S	,,	560 Ω "	1 1
R536 R537		" -331S	"	330 Ω "	li
R540		QRD143J-1R0S	,,	1Ω "	1
FR502	\triangle	QRH141J-2R2	Fusible Resistor	2.2 Ω "	1
R547	<u> </u>	QRD143J-222S	C. Resistor	2.2 kΩ "	1
R548		" -151S	"	150 Ω "	1
11010		VMZ0015-001	Post Pin		7
C101, 201, 111, 211, 520,		QET41HR-474	E. Capacitor	0.47 μF 50 V	7
524, 525					
C102, 202		QCS11HJ-451	C. Capacitor	450 pF "	2
C103, 203, 144, 244		QEB41HM-105M	E. Capacitor (Low Leak)	1 μF "	4
C104, 204, 522		QCS11HJ-101	C. Capacitor	100 pF "	3
C106,206,107,207,117,217,		QET41HR-335	E. Capacitor	3.3 μF "	12
130,230,131,231,136,236	<u></u>		"	1 "E "	
C108,208,112-116,212-216	3,	" -105	"	1 μF "	32
118,218,120,220,158,258,	1			1	
159,259,509		QET41AR-336	"	33 μF 10 V	1
C109, 209, 128, 228		QFM41HJ-273	M. Capacitor	0.027 μF 50 V	4 2
C110, 210		" -103	" Capacitoi	0.027 μF "	4
C119, 219, 510, 515		QCS41HJ-301	C. Capacitor	300 pF "	3
C121, 221, 156 C122, 222, 129, 229		QFM41HJ-152	M. Capacitor	0.0015 μF "	4
C122, 222, 129, 223		" -683	"	0.068 μF "	2
0.20, 220	l	" -272	"	0.0027 μF "	2

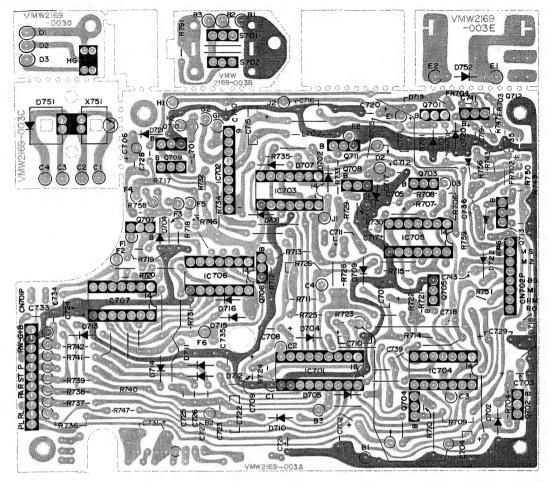
Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
C125, 225		QEB41HM-104	E. Capacitor (Low Leak)	0.1 μF 50 V	2
C126, 226		QEB41EM-475M	" "	4.7 μF 25 V	2
C127, 227, 521, 531		QET41AR-107	E. Capacitor	100 μF 10 V	4
C132, 232, 513, 528, 532,	l	" -227	"	220 μF "	7
535, 538					
C133, 233		QCS11HJ-681	C. Capacitor	680 pF 50 V	2
C134, 234		QFM41HJ-122	M. Capacitor	0.0012 μF "	2
C135, 235	1	" -184	_ "	0.18 μF "	2
C137, 237, 152, 252	1	QET41ER-475	E. Capacitor	$4.7 \mu \text{F}$ 25 V	4
C138, 238		QFM41HJ-153	M. Capacitor	0.015 μF 50 V	2
C139, 239		" -102	"	0.001 μF "	2
C140, 240, 146, 246	1	QCS11HJ-471	C. Capacitor	470 pF "	4
C141, 241		" -561	"	560 pF "	2
C142, 242		QFS32BJ-331	P.S. Capacitor	330 pF	2
C143, 243		QFM41HJ-332	M. Capacitor	0.0033 μF 50 V	2
C147, 247		QCS11HJ-221	C. Capacitor	220 pF "	2
C148, 248		QCC11EM-103	"	0.01 μF "	2
C149, 249		QCS11HJ-331	,,	330 pr	2
C151, 251		" -501		1 200 PF	2 2 2 3
C154, 254, 530		QET41CR-106	E. Capacitor	10 μF 16 V	
C157, 257		QFN41HJ-224	M. Capacitor	0.22 μF 50 V	2
C501, 505, 507, 508, 537	1	QET41AR-476	E. Capacitor	47 μF 10 V	5
C502	1	QET41CR-336	E. Capacitor	33 μF 16 V	1
C503, 529		" -337	"	330 μΓ	2
C504, 514, 527		" -477	,,	470 μΓ	3
C506		" -108		1000 με	1
C511		QCS11HJ-151	C. Capacitor	150 pF 50 V	1
C516		QFP82AJ-683	P.P. Capacitor	0.068 μF 100 V	1
C517		QET41ER-106	E. Capacitor	10 μF 25 V	1
C518		QFP82AJ-123	P.P. Capacitor	$0.012 \mu\text{F}$ 100 V	1
C519		QCY41HK-222	C. Capacitor	0.0022 μF 50 V	1
C523		QCS11HJ-680	"	68 pF "	1
C533		QCC11EM-473	"	0.047 μF 25 V	1
C534		QCY41HK-182	E. Capacitor	0.0018 μF 50 V	1
C539		QET41HR-475	"	4.7 μF "	1
C540		QCY41HK-472	"	0.0047 μF "	1

Main Amp P.W. Board Parts

→ Front

Fig. 36

Mechanical Control P.W.B Parts



Mecha. Control P.W. Board Parts List

 $\underline{\Lambda}$ Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	VMW2169-002A	P.W. Board		1
IC701	VUC0002-001	IC		1
IC702	BA6208A	"	,	1
IC703	M74LS00P	"		1
IC704, 705, 706	M74LS05P	"		3_
IC707	M74LS12P	"		1
X701	2SD325(E)HP	Transistor		1
X702, 712	2SD439(E)	"		2
X703, 704	2SD636(S)	"		2
X705,706,707,708,709,713	2SD636(R,S)	"		6_
X710, 711	2SC2673(P,Q,R)	"		2
D701, 723	HZ7C2	Zener Diode		2
D702, 718, 719	10E1	Si. Diode		3
D703	HZ6B	Zener Diode		1
D704-717, 722, 724	1S2076	Si. Diode		16
D721	HZ6C2	Zener Diode		1
D720	HZ12B1	"		1
R701, 704	QRD147J-102S	C. Resistor	1 kΩ ¼ W	2
R743	" -103S	"	10 kΩ "	1
R745	QRD143J-100S	"	10 Ω "	1
R747	" -391S	"	390 Ω ″	1
R749	" -562S	"	5.6 kΩ "	1
R750	" -473S	"	47 kΩ "	1
R751	" -101S	"	100 Ω "	1
R754	" -102S	"	1 kΩ "	1

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Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
R758 R760 FR701, 704 FR702 FR703	\triangle	QRD143J-822S QRD141J-681S QRH141J-4R7 "-100 "-2R2	C. Resistor Fusible Resistor	8.2 k Ω	1 1 2 1
C701, 704, 707, 712 C702, 731 C703 C705 C706	2.3	QET41AR-227 QET41ER-108 QET41HR-105 QET41AR-107 QET41ER-476	E. Capacitor	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 2 1 1 1
C708 C709, 710 C711 C713 C714,718,721,722,723,725, 726,727,732,733,734,739, 741,742		QET41AR-337 QEE41EM-105B QEB41EM-475 QET41ER-336 QCF11EZ-223	T.E. Capacitor E. Capacitor (Low Leak) E. Capacitor C. Capacitor	330 μF 10 V 1 μF 25 V 4.7 μF " 33 μF " 0.022 μF "	1 2 1 1 14
C715 C716, 728 C717, 724 C719 C720		QET41AR-477 QCF11EZ-473 QET41AR-476 QET41CR-106 QET41ER-477	E. Capacitor	$470 \mu \text{F}$ 10V $0.047 \mu \text{F}$ 25V $47 \mu \text{F}$ 10V $10 \mu \text{F}$ 16V $470 \mu \text{F}$ 25V	1 2 2 1 1
C729 C735, 743 C736 C737, 738, 740 C744		QET41CR-336 "-476 "-226 QCF11HP-103 QCC11EM-104	C. Capacitor	$33 \mu F$ $16 V$ $47 \mu F$ " $22 \mu F$ " $0.01 \mu F$ $50 V$ $0.1 \mu F$ $25 V$	1 2 1 3 1
CN701P CN702P L701 L702		QMV5004-011 " -008 T41572-001 VQP0004-231	Connector "Inductor		1 1 1 1
[Switch P.W. Board] S701, 702 R791		VMW2169-002B QSP0029-001 QRD181J-680A	P.W. Board Push Switch C. Resistor	68 Ω 1/8 W	1 2 1
[LED P.W. Board Ass'y] X751 D751		VMW2169-002C PN202S TLP108D VKZ4135-001 VYH4450-001	P.W. Board Photo Transistor LED Spacer Photo Shell		1 1 1 1
[H.G. P.W. Board Ass'y] H.G.		VMW2169-002D VHE610G	P.W. Board Hall Element		1 1
[Solenoid P.W. Board] D752 S703		VMW2169-002E 10E1 VSH1108-006	P.W. Board Si. Diode Switch Ass'y		1 1 1

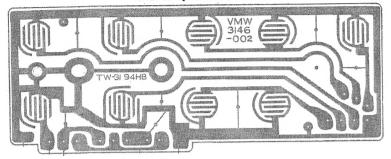
Main Amp. P.W. Board Parts List

Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q't
\$601-1 4 \$602-1 2 \$603-1 4		VMW2179-002 QSL4210-103 QSL2210-101 QSS4201-072	P.W. Board Lever Switch " Slide Switch	No supply as parts ass'y MONO - STEREO LOUDNESS	1 1 1 1
VR601-1 2, VR602-1 2		QVD4A2A-015M	V. Resistor	BASS, TREBLE 50 k Ω	2
VR603 VR604-1 2 VR301, 401 J301 J401		QVF0A2G-054M QVN3A2B-A54M QVP8A0B-013 VMC0002-002 "-001	Pin Jack	$\begin{array}{lll} \text{BALANCE} & 50 \text{ k}\Omega \\ \text{MAIN VOL.} & 50 \text{ k}\Omega \\ \text{METER ADJ.} & 1 \text{ k}\Omega \\ \text{PHONO IN} & & & & & & & \\ \end{array}$	1 1 2 1
J302, 402 J601 IC301, 401 IC601		QMC0289-003 QMA1221-006 VDE6028-B01 AN7156N μPC4557(C)	Jack DC Jack Volume Kit IC "	EXT. SPKR EXT. DC IN	2 1 1 2 1
IC602 Q301, 401, 302, 402 Q303, 403, 304, 404 Q305, 405 Q306, 406 Q601		BA328 2SC536(H) 2SC536(F,G) 2SC945(Q,P) 2SC2001(L, K) 2SD439(E)	Transistor	or 2SC2001(L,K)	1 4 4 2 2 1
Q602 D301, 401, 604, 605 D302, 402		2SD325(E)HP VYH4905-001 -VYSP1R5-024 1S2076 1K34A	Heat Sink Spacer Si. Diode Ge. Diode		1 1 1 4 2
D601 D602 D603 R301, 401, 307, 407, 309, 409, 360, 460		HZ11A2 HZ9C2 DSA26B QRD141J-472S	Zener Diode " Si. Diode C. Resistor	4.7 kΩ 1/4 W	1 1 8
R302, 402 R303, 403, 361, 461 R304, 404, 602 R306,406,329,429,331,431 R308, 408, 454		" -822S " -272S " -562S " -152S " -102S	" " " "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 6 3
R310, 410, 311, 411 R312,412,362,462,352,452 R313, 413 R314, 414 R315, 415		" -560S " -473S " -105S " -330S " -183S	" " " " "		4 6 2 2 2
R316, 416 R317, 417, 322, 422, R319, 419 R320, 420, 324, 424 R321, 421		" -684S " -332S QRD143J-331S QRD141J-682S " -391S " -122S	" " " " " " "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 4 2 2 2
R323, 423 R325, 425 R326, 426 R327, 427 R328, 428 R330, 430		ORD121J-2R2 ORD141J-122S "-104S "-393S "-155S	" " " " " " " " " " " " " " " " " " " "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 2 2 2 2
R332, 432 R351, 451 R353, 453 R355, 455, 363, 463 R356, 456 R357, 457, 606		" -563S " -182S " -471S " -103S " -124S " -683S	" " " " " " "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 2 2 4 2 3
R358, 458 R359, 459 R354 R425		QRD143J-104S " -563S " -102S QRD123J-2R2	" " " " " " " " " " " " " " " " " " " "	100 kΩ " 56 kΩ " 1 kΩ " 2.2 Ω 1/2 W	2 2 1 1
R601 R603, 608, 651 R607, 305, 405		QRD141J-562S "-681S "-222S	" " " " " " " " " " " " " " " " " " " "	$\begin{array}{ccc} 5.6 \text{ k}\Omega & 1/4 \text{ W} \\ 680 \Omega & \text{"} \\ 2.2 \text{ k}\Omega & \text{"} \end{array}$	3 3

Ref. No.	\triangle	Parts No.	Parts Name	Remarks	Q'ty
R609, 651		QRD141J-101S	C. Resistor	10 Ω 1/4 W	2
R610		" -153S	"	15 kΩ "	1
R611		QRD143J-222S	"	2.2 kΩ "	1
R612		QRD141J-472S	"	$4.7 \text{ k}\Omega$	1
11012					
CN601P		QMV5004-012	Connector	to PRE	1
CN602P	ļ	" -006		to H. PHONE	1
CN605P		QMV5005-003	"	to METER	1
CN606P		" -002	"	to DIN	1
C327, 427, 358, 458, 605		QET41HR-335	E. Capacitor	3.3 μF 50 V	5
C303		QFM41HK-473	M. Capacitor	0.047 μF "	1
C304, 404		QFM31HJ-104Z	"	0.1 μF "	2
C305, 405		QCY41HK-222	C. Capacitor	0.0022 μF "	2
C306, 406		QFM31HJ-223Z	M. Capacitor	0.022 μF "	2
C307, 407		QEB41EM-224	E. Capacitor	0.22 μF 25 V	2
C308, 408		QCY41HK-182	C. Capacitor	0.0018 μF 50 V	2
C309, 409, 352, 452, 609		QET41HR-474	E. Capacitor	0.47 μF "	3
C310, 410		QET41ER-475		4.7 μF 25 V	2
C311, 411, 353		QCY41HK-102	C. Capacitor	0.001 μF 50 V	3
C312, 412		QET41ER-228	E. capacitor	2200 μF 25 V	3 2
C313, 413, 319, 419		QFN41HJ-224	M. Capacitor	0.22 µF 50 V	4
C314, 414		QCC11EM-433	C. Capacitor	0.047 μF 25 V	1
C315,415,316,416,354,454		QET41AR-476	E. Capacitor	47 μF 10 V	6
C317, 417, 603, 651		-107	", supusitor	100 μF "	4
C317, 417, 603, 637		QCC11EM-473	C. Capacitor	0.047 μF 25 V	2
C320, 420, 321, 421		QET41CR-228	"	2200 μF 16 V	4
C322, 422, 323, 423, 325,		QET41HR-105	"	1 μF 50 V	10
301, 401, 425, 357, 457					
C324, 424, 359, 459, 612		QET41CR-106	"	10 μF 16 V	5
C326, 426		QET41ER-226		22 μF "	2
C351, 451		QCS11HJ-201	C. Capacitor	200 pF 50 V	2
C355, 455		QFM41HJ-822	M. Capacitor	0.0082 μF "	2
C356, 456		<i>"</i> -273	"	0.027 μF "	2
C360, 460	1	QCS11HJ-101	C. Capacitor	100 pF "	2
C453		QCY41HK-102	"	0.001 μF "	1
C601, 606, 608		QET41AR-477	E. Capacitor	470 μF 10 V	3
C602, 607		" -108	"	1000 μF "	2
C604, 616		QET41ER-227	"	220 μF 25 V	2
C610		QET41AR-227	"	47 μF "	1
C611		" -106	"	10 μF "	1
C613, 614		QCF11HP-103	"	0.01 μF 50 V	1
C617		QCY41HK-152	"	0.0015 μF "	1

Other P.W. Board Parts

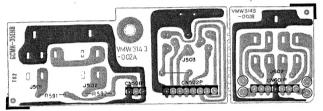
Mecha. Operation buttons



Power Switch

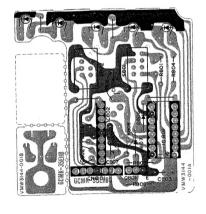


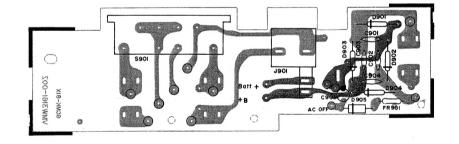
MIX Mic jacks



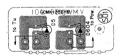
Power Supply

MMS





L.E.D



Mic wire connector



Other P.W. Board Parts List

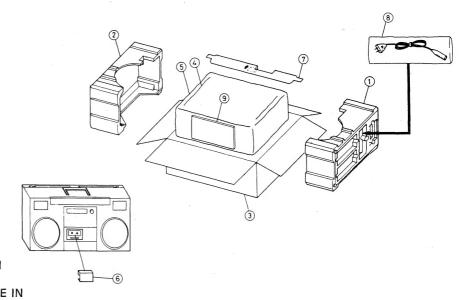
 \triangle Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Ref. No) .	\triangle	Parts No.	Parts Name	Remarks	Q't
	5901-1 2 CN901P CN903P CN902P		VMW3153-002 QSP0210-016 QMV5004-003 "-005 "-006	P.W. Board Push Switch Connector	for Power SW	1 1 1 1
[M.M.S.]	S801-1 2 S802 IC802 IC801		VMW3144-001 QSL2309-004 "-003 BA335 TC9138AP	P.W. Board Lever Switch "IC		1 1 1 1
[F	2801 2806, 807 R801 R802		2SC945(Q,P) 1S2076 QRD141J-102S "-563S	Transistor Si. Diode C. Resistor	1 kΩ 1/4 W 56 kΩ "	1 2 1 1
F F	R804 R805 R806 R807		" -151S " -332S " -222S " -474S	" " " "	150 Ω " 3.3 k Ω " 2.2 k Ω " 470 k Ω "	1 1 1
(R808 0802 0803 0804 0805		" -473S QCY41HK-102 QET41CR-107 QCY41HK-103 QCF11EZ-103	C. Capacitor E. Capacitor C. Capacitor	$47 \text{ k}\Omega$ " 0.001 μF 50 V 100 μF 16 V 0.01 μF 50 V 0.01 μF 50 V 0.01 μF 25 V	1 1 1 1
(0806 0807 0808 0809 0810		QFM41HK-223 "-823 QET41CR-226 QMF41HK-103 QCF11EZ-223 V44611-002 "-003	M. Capacitor E. Capacitor M. Capacitor C. Capacitor F.B. Wire	0.022 μF 50 V 0.082 μF " 22 μF 16 V 0.01 μF 50 V 0.022 μF 25 V	1 1 1 1 1 2 2
	CN801P D801-805		QMV5004-006 LN21RP.HL	Connector LED	To Mecha. Con. P.W.B.	1 5
[MIX, MIC Jack			VMW3143-002A QMS6305-001 QMS6303-013 QMC0888-010 SPSP3006MS	P.W. Board Jack " DIN Socket Screw	MIX MIC.	1 1 1 1 2
CN501P CN502P			QMV5004-003 "-008	Connector		1 1
[Phones Jack]	J602 CN601P		VMW3143-002B QMS6312-012 VYH4766-001 QMV5004-007 VKZ4150-001	P.W. Board Jack Jack Holder Connector Special Nut		1 1 1 1 1
	D752 D753		VMW3146-001 SLP144B SLP244B	P.W. Board LED "	Rec. Pause	1 1 1
! !	D901–904 FR901 D905 C901–904	<u>^</u>	VMW3161-003 U08B-F QRH141J-2R2 10E1 QCF11EZ-223 QET41ER-335	P.W. Board Si. Diode Fusible Resistor Si. Diode C. Capacitor E. Capacitor	0.022 μF 25 V 3.3 μF "	1 4 1 1 4 1
	S901 J901		A44594-001 QMF51A2-4R0 "-4R0BS QMC0263-002 "-002BS	Fuse Clip Fuse " AC Socket	RC-M90L/LD RC-M90LB RC-M90L RC-M90LB	1 1 1 1 1
	S902-1 2 T901	<u>↑</u>	OSS2325-101 " -101BS VTP66N2-15E " -15EBS VYH4960-00A VYSH1R5-001	Slide Switch Power Transformer Shield Ass'y Spacer	RC-M90L RC-M90LB RC-M90L/LD RC-M90LB	1 1 1 1 1 1

Packing

Position of controls and switch knobs at renewed packing

Fine tuning knob : Center : MW Band selector : 600 kHz Tuning : OFF Power switch METER/MODE switch: MONO : Center BASS control TREBLE control : Center **BALANCE** control : Center : Center VOLUME control LOUDNESS switch : OFF **FUNCTION** switch : TAPE NR SYSTEM switch : OFF : MANU REC switch **REC** level controls : Center MIXING MIC LEVEL control: Center TIMER STANDBY switch: PLAY MULTI MUSIC SCANNER switch: ON BEAT CUT switch : "1" Normal PHONO/LINE IN selector switch: LINE IN



Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1–3	VDP5072-004A	Carton Ass'y	RC-M90LB	1
	" -005A	"	RC-M90L	1
	" -006A	"	RC-M90LD	1
1	VPH1226-001	Cushion (L)		1
2	VPH1227-001	" (R)		1
3	VPD5072-J04	Carton	RC-M90LB	1
	" -J05	"	RC-M90L	1
	" -J07	"	RC-M90LD	1
4	VHPJ109-039	White Paper		1
5	QPGA085-06505	Poly Bag	for Unit	1
6	VPH4106-001	Door Protector		1
7	VPK4136-004	Spacer		1
. 8	QPGA012-01505	Poly Bag	for Power Cord	1
9	QPGB024-03404	"	for Instruction	1

Label

Parts No.	Parts Name	Remarks	Q'ty
53866-2	Label	RC-M90LB	1
31465-18	Mark		1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
VGP12M2-J02	Cassette Tape	`	1
QZL1002-003	Warning Label	RC-M90LB	1
QMP3950-183	Power Cord	RC-M90L	1
QMP9017-009BS 4	<u>'</u>	RC-M90LB	1
QPGA012-01505	Poly Bag	for Power Cord	1
VYA4001-00A	Head Cleaning Stick		1
BT20013C	Guaranty Certificate	RC-M90LB	1
VNC6305-001	Troubleshooting		1
*VNM0849-301	Instruction Book	*	1
*VNF0849-001	Feature Sticker		1
QPGB024-03404	Poly Bag		1

